Milliken™

KeyPlast®
A spectrum of bright colorants for plastics



Milliken



KeyPlast® colorants can be applied across a broad range of polymers, to include ABS, acrylic, polycarbonate, polyesters, styrenics, PVC and even PLA bioplastics. The charts below help to specify exactly which shades — ranging from bright, sunshine-like yellows, and warm reds and oranges, to rich blues, greens and violets — work with which types of resin.

 Highly recommended Recommended Suitable Not recommended Product Name	Chemical Type	C.I. Generic Name	Thermal Stability	Lightfastness Masstone	Lightfastness Tint	ABS-Acrylonitril Butadine Styrene	Thermoplastic Acrylic (PMMA)	Polycarbonate	Polyesters-e.g PET, PETF, PETG	Polystyrenes e.g GPPS, MIPS, HIPS	Polyvinyl Chloride - Rigid	PLA	Glol	ool Isc	China³ Loo po	ntact*
KeyPlast FL Yellow 10GN	Coumarin	S.Y. 160:1	300°C (575°F)	7	4	•	•	•	•	•	•	•	~	~	~	~
KeyPlast Yellow 6G	Methine	D.Y. 201	300°C (575°F)	8	7	•	•	•	•	•	•	•				
KeyPlast FL Yellow 3R	Thioxanthene	S.Y. 98	300°C (575°F)	7	5	•	•	•	•	•	•	•				
KeyPlast FL Yellow Green 7G	Perylene	S.G. 5	300°C (575°F)	6	4	•	•	•	•	•	•	•	~	~		~
KeyPlast Yellow G	Quinophthalone	D.Y. 64	300°C (575°F)	8	7	•	•	•	•	•	•	•		~		~
KeyPlast Yellow AG	Quinoline	S.Y. 114	300°C (575°F)	7	5	•	•	•	•	•	•	•	~	~	~	_
KeyPlast Yellow 4GL	Monoazo	D.Y. 241	280°C (540°F)	7	6	0	•	•	•	•	•	•	~	~	~	•
KeyPlast Yellow GHS	Anthraquinone	S.Y. 163	300°C (575°F)	7	5	•	•	•	•	•	•	•				
KeyPlast Yellow 2GH	Monoazo	S.Y. 72	280°C (540°F)	6	4	•	•	0	0	•	0	•				
KeyPlast Yellow 3G	Methine	S.Y. 93	300°C (575°F)	7	6	•	•	•	•	•	•	•				
KeyPlast Orange LFP	Perinone	S.O. 60	300°C (575°F)	7	6	•	•	•	•	•	•	•	~	~	~	/

^{*}See notes regarding Global Food Contact on page 6.

- Highly recommended
- Recommended
- Suitable

Chemical Type	C.I. Generic Name	Thermal Stability	Lightfastness Masstone	Lightfastness Tint	ABS-Acrylonitril Butadine Styrene	Thermoplastic Acrylic (PMMA)	Polycarbonate	Polyesters-e.g PET, PETF, PETG	Polystyrenes e.g GPPS, MIPS, HIPS	Polyvinyl Chloride - Rigid	PLA		ntact* [₽] ∀		
Thioxanthene	S.O.63	300°C (575°F)	7	4	•	•	•	•	•	•	•	~	~	~	~
Coumarin	Proprietary	300°C (575°F)	6	5	•	•	•	•	•	•	•	~	~	~	~
Methine	D.O. 47	300°C (575°F)	7	5	•	•	•	•	•	•	•	~	~	~	~
Anthraquinone	S.R. 111	300°C (575°F)	7	4	•	•	•	0	•	•	•				
Perinone	S.R. 135	300°C (575°F)	8	6	•	•	•	•	•	•	•	~	~	~	~
Perinone	S.R. 179	300°C (575°F)	7	5	•	•	•	•	•	•	•		~	~	~
Thioindigoid	Vat Red 41	280°C (540°F)	4	3	•	•	•	•	•	•	•				
Anthraquinone	D.R. 60	300°C (575°F)	7	6	•	•	•	•	•	•	•	~	~		~
Azo	Proprietary	280°C (540°F)	6	5	•	•	0	•	•	•	•	~	~	~	~
Monoazo	S.R. 195	280°C (540°F)	7	6	•	•	•	•	•	•	•	~	~	~	~
Anthraquinone	S.R. 207	300°C (575°F)	7	6	•	•	•	•	•	•	•				
Anthraquinone	S.R. 149	300°C (575°F)	6	5	•	•	•	•	•	•	•	~	~	~	•
	Type Thioxanthene Coumarin Methine Anthraquinone Perinone Thioindigoid Anthraquinone Azo Monoazo Anthraquinone	Chemical TypeGeneric NameThioxantheneS.O.63CoumarinProprietaryMethineD.O. 47AnthraquinoneS.R. 111PerinoneS.R. 135PerinoneS.R. 179ThioindigoidVat Red 41AnthraquinoneD.R. 60AzoProprietaryMonoazoS.R. 195AnthraquinoneS.R. 207	Chemical Type Generic Name Thermal Stability Thioxanthene S.O.63 300°C (575°F) Coumarin Proprietary 300°C (575°F) Methine D.O. 47 300°C (575°F) Anthraquinone S.R. 111 300°C (575°F) Perinone S.R. 135 300°C (575°F) Perinone S.R. 179 300°C (575°F) Thioindigoid Vat Red 41 280°C (540°F) Anthraquinone D.R. 60 300°C (575°F) Azo Proprietary 280°C (540°F) Anthraquinone S.R. 195 280°C (540°F) Anthraquinone S.R. 207 300°C (575°F)	Thioxanthene S.O.63 300°C (575°F) 7 Coumarin Proprietary 300°C (575°F) 6 Methine D.O. 47 300°C (575°F) 7 Anthraquinone S.R. 111 300°C (575°F) 7 Perinone S.R. 135 300°C (575°F) 7 Thioindigoid Vat Red 41 280°C (570°F) 7 Anthraquinone D.R. 60 300°C (575°F) 7 Azo Proprietary 280°C (540°F) 7 Anthraquinone S.R. 195 280°C (540°F) 7 Anthraquinone S.R. 207 300°C (575°F) 7	Thioxanthene S.O.63 300°C (575°F) 7 4 Coumarin Proprietary 300°C (575°F) 6 5 Methine D.O. 47 300°C (575°F) 7 5 Anthraquinone S.R. 111 300°C (575°F) 7 4 Perinone S.R. 135 300°C (575°F) 7 5 Thioindigoid Vat Red 41 280°C (540°F) 7 5 Anthraquinone D.R. 60 300°C (575°F) 7 6 Azo Proprietary 280°C (540°F) 7 6 Monoazo S.R. 195 280°C (540°F) 7 6 Anthraquinone S.R. 207 300°C (575°F) 7 6	Thioxanthene S.O.63 300°C (575°F) 7 4 ● Coumarin Proprietary 300°C (575°F) 6 5 ● Methine D.O. 47 300°C (575°F) 7 5 ● Anthraquinone S.R. 111 300°C (575°F) 7 4 ● Perinone S.R. 135 300°C (575°F) 7 5 ● Thioindigoid Vat Red 41 280°C (540°F) 7 5 ● Anthraquinone D.R. 60 300°C (575°F) 7 6 ● Azo Proprietary 280°C (540°F) 7 6 ● Monoazo S.R. 195 280°C (540°F) 7 6 ● Anthraquinone S.R. 207 300°C (575°F) 7 6 ●	Thioxanthene S.O.63 300°C (575°F) 7 4	Thioxanthene S.O.63 300°C (575°F) 7 4 ● ● Coumarin Proprietary 300°C (575°F) 6 5 ● ● Methine D.O. 47 300°C (575°F) 7 5 ● ● Anthraquinone S.R. 111 300°C (575°F) 7 4 ● ● Perinone S.R. 135 300°C (575°F) 7 5 ● ● Perinone S.R. 179 300°C (575°F) 7 5 ● ● Thioindigoid Vat Red 41 280°C (540°F) 7 6 ● ● Anthraquinone D.R. 60 300°C (575°F) 7 6 ● ● Monoazo S.R. 195 280°C (540°F) 7 6 ● ● Anthraquinone S.R. 207 300°C (575°F) 7 6 ● ●	Thioxanthene S.O.63 300°C (575°F) 7 4 ● ● ● Coumarin Proprietary 300°C (575°F) 6 5 ● ● ● Methine D.O. 47 300°C (575°F) 7 5 ● ● ● Anthraquinone S.R. 111 300°C (575°F) 7 4 ● ● ● Perinone S.R. 135 300°C (575°F) 7 5 ● ● ● Perinone S.R. 179 300°C (575°F) 7 5 ● ● ● Thioindigoid Vat Red 41 280°C (540°F) 7 6 ● ● ● Anthraquinone D.R. 60 300°C (575°F) 7 6 ● ● ● Monoazo S.R. 195 280°C (540°F) 7 6 ● ● ● Anthraquinone S.R. 207 300°C (575°F) 7 6 ● ● ●	Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (S75°F) 7 4 ■ ■ ■ ■ ■ ✓ <td< td=""></td<></td></td<></td></td<></td></td<></td></td<></td></td<>	Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (S75°F) 7 4 ■ ■ ■ ■ ■ ✓ <td< td=""></td<></td></td<></td></td<></td></td<></td></td<>	Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (S75°F) 7 4 ■ ■ ■ ■ ■ ✓ <td< td=""></td<></td></td<></td></td<></td></td<>	Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (S75°F) 7 4 ■ ■ ■ ■ ■ ✓ <td< td=""></td<></td></td<></td></td<>	Thioxanthene S.O.63 300°C (575°F) 7 4 • <td< td=""><td>Thioxanthene S.O.63 300°C (S75°F) 7 4 ■ ■ ■ ■ ■ ✓ <td< td=""></td<></td></td<>	Thioxanthene S.O.63 300°C (S75°F) 7 4 ■ ■ ■ ■ ■ ✓ <td< td=""></td<>

^{*}See notes regarding Global Food Contact on page 6.

- Highly recommended
- Recommended
- Suitable

Product

O Not recommended

		Lightfastness Masstone	Lightfastness Tint	ABS-Acrylonitril Butadin	Thermoplastic Acrylic (F	onate	Polyesters-e.g PET, PETF	Polystyrenes e.g GPPS, I	Polyvinyl Chloride - Rigic		Glo	bal Fo	od Co	Contact*			
C.I. Generic Name	Thermal Stability	Lightfas	Lightfas	ABS-Ac	Thermo	Polycarbonate	Polyeste	Polystyr	Polyviny	PLA	US¹	EU ²	China³	LA⁴			
S.R. 52	300°C (575°F)	7	6	•	•	•	•	•	•	•	~	~	~	~			
D.V. 26	300°C (575°F)	7	6	•	0	•	•	•	•	•							
S.V. 14	300°C (575°F)	7	5	•	•	0	0	•	•	•							
S.V. 13	300°C (575°F)	8	6	•	•	•	•	•	•	•	~	~	~	~			
D.B. 60	290°C (550°F)	6	4	0	•	0	•	•	•	•	~	~		~			
S.B. 36	240°C (465°F)	6	4	•	•	0	0	•	•	•							

Туре	Name	Stability	Ligh	Ligh	ABS	The	Poly	Poly	Poly	Poly	PLA	US¹	EU ²	Chir	LA⁴
Anthraquinone	S.R. 52	300°C (575°F)	7	6	•	•	•	•	•	•	•	~	~	~	~
Anthraquinone	D.V. 26	300°C (575°F)	7	6	•	0	•	•	•	•	•				
Anthraquinone	S.V. 14	300°C (575°F)	7	5	•	•	0	0	•	•	•				
Anthraquinone	S.V. 13	300°C (575°F)	8	6	•	•	•	•	•	•	•	~	~	~	•
Anthraquinone	D.B. 60	290°C (550°F)	6	4	0	•	0	•	•	•	•	~	~		'
Anthraquinone	S.B. 36	240°C (465°F)	6	4	•	•	0	0	•	•	•				
Anthraquinone	S.B. 97	300°C (575°F)	7	6	•	•	•	•	•	•	•		~	~	~
Anthraquinone	S.B. 35	290°C (550°F)	7	5	•	•	0	0	•	•	•		~		~
Anthraquinone	S.B. 104	300°C (575°F)	7	6	•	•	•	•	•	•	•	~	~	~	~
Anthraquinone	S.G. 3	300°C (575°F)	7	6	•	•	•	•	•	•	•	~	~	~	•
Azine	S.Blk. 7	300°C (575°F)	7	5	•	•	•	•	•	•	•				
	Anthraquinone Anthraquinone	Anthraquinone S.R. 52 Anthraquinone D.V. 26 Anthraquinone S.V. 14 Anthraquinone S.V. 13 Anthraquinone D.B. 60 Anthraquinone S.B. 36 Anthraquinone S.B. 35 Anthraquinone S.B. 35 Anthraquinone S.B. 35 Anthraquinone S.B. 35	Type Name Stability Anthraquinone S.R. 52 300°C (575°F) Anthraquinone D.V. 26 300°C (575°F) Anthraquinone S.V. 14 300°C (575°F) Anthraquinone S.V. 13 300°C (575°F) Anthraquinone D.B. 60 290°C (550°F) Anthraquinone S.B. 36 240°C (465°F) Anthraquinone S.B. 36 240°C (575°F) Anthraquinone S.B. 35 290°C (575°F) Anthraquinone S.B. 35 290°C (575°F) Anthraquinone S.B. 104 300°C (575°F) Anthraquinone S.B. 104 300°C (575°F)	Type Name Stability 500 cm Anthraquinone S.R. 52 300°C (575°F) 7 Anthraquinone D.V. 26 300°C (575°F) 7 Anthraquinone S.V. 14 300°C (575°F) 7 Anthraquinone S.V. 13 300°C (575°F) 8 Anthraquinone D.B. 60 290°C (550°F) 6 Anthraquinone S.B. 36 240°C (465°F) 6 Anthraquinone S.B. 97 300°C (575°F) 7 Anthraquinone S.B. 35 290°C (550°F) 7 Anthraquinone S.B. 104 300°C (575°F) 7 Anthraquinone S.G. 3 300°C (575°F) 7	Type Name Stability 39 39 Anthraquinone S.R. 52 300°C (575°F) 7 6 Anthraquinone D.V. 26 300°C (575°F) 7 6 Anthraquinone S.V. 14 300°C (575°F) 7 5 Anthraquinone S.V. 13 300°C (575°F) 8 6 Anthraquinone D.B. 60 290°C (550°F) 6 4 Anthraquinone S.B. 36 240°C (465°F) 6 4 Anthraquinone S.B. 97 300°C (575°F) 7 6 Anthraquinone S.B. 35 290°C (550°F) 7 5 Anthraquinone S.B. 104 300°C (575°F) 7 6 Anthraquinone S.G. 3 300°C (575°F) 7 6	Type Name Stability □	Type Name Stability □	Type Name Stability Stabili	Type Name Stability 50	Type Name Stability So So E Z	Type Name Stability Stabili	Type Name Stability Stabili	Type Name Stability Seed Fig. 1 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 2 3 2 2 3 3 2 3 </td <td>Type Name Stability SS Q E Q E Q</td> <td>Type Name Stability 30</td>	Type Name Stability SS Q E Q E Q	Type Name Stability 30

Chemical

^{*}See notes regarding Global Food Contact on page 6.

KeyPlast® colorants can be applied across a broad range of polymers, to include ABS, acrylic, polycarbonate, polyesters, styrenics, PVC and PLA bioplastics.

Leverage the rainbow of hues and shades offered by these colorants to help bring your products to life and to enhance and reinforce your brand's story. These KeyPlast have approval globally for food-contact applications. See the chart below and page 6 for more details.

 Highly recom Recommende Suitable Not recomme Product Name	ed	Chemical Type	C.I. Generic Name	Thermal Stability	Lightfastness Masstone	Lightfastness Tint	ABS-Acrylonitril Butadine Styrene	Thermoplastic Acrylic (PMMA)	Polycarbonate	Polyesters-e.g PET, PETF, PETG	Polystyrenes e.g GPPS, MIPS, HIPS	Polyvinyl Chloride - Rigid	PLA	Glob SO	EU²	China³ uo p	tact*
KeyPlast Yellow RNB		Anthraquinone	P.Y. 147	290°C (550°F)	7	6	0	•	•	•	•	•	•	~	~	~	~
KeyPlast Yellow 7GK		Quinoline	P.Y. 138	260°C (500°F)	7	7	•	0	•	0	•	•	•	~	~	~	~
KeyPlast Yellow KG		Azo	P.Y. 180	290°C (550°F)	6	6	•	•	•	0	•	•	•	~	~	~	~
KeyPlast Yellow 3KLTN		Isoindolinone	P.Y. 110	300°C (575°F)	8	8	•	0	0	0	•	•	•	~	~	~	~
KeyPlast Orange GP		Benzimidazo- Ione	P.O. 64	300°C (575°F)	8	8	•	•	•	0	•	•	•	~	~	~	~
KeyPlast Red KPP		Diketo- pyrrolopyrrole	P.R. 254	300°C (575°F)	8	8	•	0	0	0	•	•	•	~	~	~	~
KeyPlast Vat Red V		Anthraquinone	P.R. 177	290°C (550°F)	6	6	•	•	0	•	•	•	•	~	~	~	~
MPC Channel Black		Carbon Black	P.Blk. 7	400°C (750°F)	8	8	•	•	•	•	•	•	•	~	~	~	~
MPC Channel Black Micro- pulverized		Carbon Black	P.Blk. 7	400°C (750°F)	8	8	•	•	•	•	•	•	•	~	~	~	_

^{*}See notes regarding Global Food Contact on page 6.



Amorphous transparent polymers often have a yellow appearance due to the production technology used to make them. These polymers tend to be color tuned with very low loadings of optical brighteners and/or solvent dyes. KeyPlast's aesthetic enhancer can help here, with its innovative anti-yellowing package. Offering purity, consistency and traceability, these additives - combined with Milliken's strong regulatory and technical support - can help a brand to protect its all-important image.

Highly recommendedRecommendedSuitableNot recommended		C.I. Generic		Polystyrene (PS)	High Impact Polystyrene (HIPS)	Polycarbonate (PC)	Polyethyleneterephthalate (PET)			China ³	
Product Name	Chemical Type	Name	Thermal Stability	Pol	÷ i	Pol	Pol	US¹	E	S.	LA ⁴
KeyPlast Red CB	Monoazo	S.R. 195	280°C (540°F)	•	•	•	•	~	~	~	~
KeyPlast Rubine T	Anthraquinone	S.R. 52	300°C (575°F)	•	•	•	•	~	~	~	~
KeyPlast Violet PT	Anthraquinone	S.V. 14	300°C (575°F)	•	•	•	•				
KeyPlast Violet IRS	Anthraquinone	S.V. 13	300°C (575°F)	•	•	•	•	~	~	~	~
KeyPlast Blue KR	Anthraquinone	S.B. 104	300°C (575°F)	•	•	•	•	•	•	•	~

NOTES

Determination of Fastness Properties

Thermal Stability determined at 0.05% in MMA. Light Fastness determined at 0.05% in Mass & Tint in MMA under Xenon light.

Color Chips

The colors shown are intended as a general guide only. For a more precise representation, we would be pleased to provide plastic color chips upon request.

Global Food Contact

¹US = Product is compliant with Federal Food Drug and Cosmetic Act (FFDCA) requirements for use in food contact plastics. Compliance is limited by polymer type, maximum loading, food types, and conditions of use. Please contact your Milliken representative for FDA details.

- ²EU = Product has been tested and meets the purity requirements of the AP(89)1 Council of Europe resolution on the Use of Colorants in Plastic Materials Coming into Contact with Food. Please contact your Milliken representative for further details.
- ³ China = Product is listed and meets applicable requirements in the GB9685:2016 National Food Safety Standard - Standard for Uses of Additives in Food Contact Materials and Articles.' Additional restrictions may apply, please contact your Milliken representative for full compliance details.
- ⁴LA = Product has been tested and meets the purity requirements of MERCOSUR GMC Res. No. 15/10 'Technical Regulation on Colors in Containers and Plastic Equipment Designed to be in Contact with Foods.' Please contact your Milliken representative for further details.

Milliken continues to support customers meeting ever-increasing market requirements. The following list of products represent high performance colorants for Engineering Polymers such as Polyamide, PolySulfone, and other high heat polymers and alloys. Milliken recommends testing in your specific system, and under your conditions.

Polyamide resins, also known as Nylon, are polymers often chosen for their ability to withstand elevated or extremely low service temperatures without loss of physical properties. They are used in demanding applications like power tools, automotive parts, gears, and appliance parts. The combination of high processing temperatures and amines present in Nylon polymers make most traditional colorants unsuitable for use.

Milliken offers the following selection of colorants that are known to be stable in most compounds of Nylon 6, Nylon 6,6, glass-filled compounds as well as other Polyamide resins.

 Highly recommended Recommended Suitable Process dependent Not recommended 			Lightfastness Tint	PA 6 (Nylon 6)	PA 66 (Nylon 66)	PA 6 & PA 66 Glass Filled	PA 6 & PA 66 Flame Retardant	PA 46 (Nylon 46)	PBT Poly Butylene Terephthalate Unfilled & Glass Filled	PPA (Polyphthalamide)	PSU (Polysulfone)
Product Name	Thermal Stability*	Process Stability	Ligh	PAG	PA	PA E	PA (PA	PBT Tere	PPA	Psu
KeyPlast RESIST Yellow 9785	325°C	Excellent	6	•	•	•	•	•	•	•	•
KeyPlast RESIST Yellow 9187	320°C	Very good	6	•	•	•	•	•	•	•	0
KeyPlast RESIST Yellow 9882	335°C	Excellent	5	•	•	•	•	•	•	•	•
KeyPlast RESIST Orange 7986	305°C*	Very good	6	•	•	•	•	•	•	•	0
KeyPlast RESIST Orange 9185	315°C	Very good	6	•	•	•	•	•	•	•	•
KeyPlast RESIST Red 9171	320°C	Very good	4	•	•	•	•	•	•	•	•
KeyPlast RESIST Red 8382	310°C	Good	5	•	•	•	•	•	•	•	•
KeyPlast RESIST Red 9995	320°C	Excellent	7	•	•	•	•	•	•	•	•
KeyPlast RESIST Red 9179	335°C	Very good	5	•	•	•	•	•	•	•	•
KeyPlast RESIST Red 9082	335°C	Very good	5	•	•	•	•	•	•	•	•
KeyPlast RESIST Blue 9778	300°C	Excellent	5	•	•	•	•	•	•	•	O
KeyPlast RESIST Green 9687	310°C	Excellent	6	•	•	•	•	•	•	•	0

 $^{^{\}star}$ Thermal stability is an indication and needs to be checked by polymer type and end applications.

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This document is intended for guidance only and does not constitute a Regulatory Declaration of Compliance. Food contact restrictions vary by region and polymer type. Please contact your Milliken representative for more details and for official regulatory documentation.

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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