

Ecotran[®] E1040S

Polyphenylene sulfide

Out line : Ecotran 1040S is a 40% glass fiber filled PPS compound developed to provide a high strength.

	Method	Unit	E1040S DB
General Information			High Strength
Physical properties			
Density	ISO 1183/A	-	1.67
Water absorption	ISO 62	%	0.02
Mold shrinkage (MD/TD)	ISO 294-4	%	0.3 / 0.6
Mechanical properties			
Tensile strength	ISO 527-1, -2	Mpa	185
Tensile elongation at break	ISO 527-1, -2	%	1.7
Flexural strength	ISO 178	Mpa	265
Flexural modulus	ISO 178	Mpa	13,300
Flexural elongation at break	ISO 178	%	
Charpy impact strength (notched/unnotched)	ISO 179/1eU	KJ/m2	8.1 / 38
Rockwell hardness	ISO 2039/2	R-Scale	120
Thermal properties			
Melting temperature	ISO 11357	°C	280
Coefficient of thermal expansion	ISO 11359-1, -2	m/mK	
Heat Deflection temperature, 1.82Mpa	ISO 75-1, -2/A	°C	265
Flammability (T=3.2mm)	UL 94	class	V-0
Electrical properties			
Dielectric strength (T=1.0mm)	IEC 60243-1	kv/mm	28
Dielectric constant, 1MHz	IEC 60250	-	3.8
Dielectric factor, 1MHz	IEC 60250	-	0.0016
Comparative tracking index (CTI)	IEC 60112	Volt	150
Arc resistance	ASTM D495	sec.	125
Volume resistivity	IEC 60093	Ohm.cm	10 ¹⁶
Processing Conditions			
Pre-drying		-	130°C / 4hr
Cylinder temperature		°C	280 - 330
Mold temperature		°C	130 - 150

* The information provided in this data sheet is based on SK's knowledge and test method, it can not be used as guranteed specification limits.