

Polyamide Aramco PA P27Z

Product Description

Aramco PA P27Z is a general-purpose polyamide 6 resin of low viscosity well suited for compounding.

Typical Applications

Compounding, paper coating and monofilament.

Resin properties	Unit	Test Method	Value ⁽¹⁾
Relative Viscosity	-	ISO 307	2.7
Water Content	wt %	ISO 15512	< 0.06
Extractable Content	wt%	Internal method	< 0.60
Density	g/cm ³	ASTM D792	1.13
Moisture Absorption (50% RH)	%	ASTM D570	4.8
Mechanical Properties⁽²⁾			
Tensile Yield Strength	Mpa	ASTM D638	65
Elongation at Break	%	ASTM D638	180
Flexural Strength	Mpa	ASTM D790	54
Flexural Modulus	Mpa	ASTM D790	1114
Izod Impact Strength (notched, 25°C)	J/m	ASTM D256	28
Hardness	Shore D	ASTM D2240	68
Thermal Properties			
Heat Deflection Temperature	°C	ASTM D648	50
Melting Point	°C	DSC	222
UL Flammability	-	UL94/1.6mm	V-2

(1) Typical values only, not to be construed as specification limits

(2) Conditioned (23±2°C, 50 ±5 % relative humidity, >40 hours).

Storage and handling: Aramco PA P27Z should be protected against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids). Store in a cool, dry place and protect it from moisture absorption and contamination.

Recommended drying condition: The drying temperature is from 80 and 120 °C. The drying time is from 3 to 5 hours.

Regulations: Detailed information is provided in Safety Data Sheet and for additional specific information, please contact Saudi Aramco Products Trading Company for certificates.

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