

SABIC Innovative Plastics NORYL RN0712 PPE+HIPS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

Noryl RN0712 is an unfilled Post Consumer recycle (PCR) based injection moldable modified polyphenylene ether resin comprising at least 37% PCR styrenic series resin content. Designed for good dimensional stability and high flow, this resin also uses non-chlorinated, non-brominated FR additives with a specific density of 1.1 g/cm³. Noryl RN0712 may be an excellent material candidate for flat panel TV enclosure applications requiring good rheological properties, heat resistance, hydrolysis resistance and low density.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-RN0712-PPEHIPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Viscosity	95000 cP	95000 cP	Melt Viscosity, 280°C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	12 g/10 min @Load 1.20 kg, Temperature 280 °C	12 g/10 min @Load 2.65 lb, Temperature 536 °F	MVR [cm ³ /10 min]; ISO 1133
	22 g/10 min @Load 2.16 kg, Temperature 280 °C	22 g/10 min @Load 4.76 lb, Temperature 536 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	50 mm/min; ISO 527
	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	7.0 %	7.0 %	50 mm/min; ISO 527
	10 %	10 %	SABIC - Japan Method
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
	3.5 %	3.5 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	77.0 MPa	11200 psi	2 mm/min; ISO 178
Flexural Modulus	2.25 GPa	326 ksi	2 mm/min; ISO 178
	2.30 GPa	334 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 6.40 mm	0.918 ft-lb/in @Thickness 0.252 in	ASTM D256
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	72.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.0 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	74.0 µm/m-°C @Temperature -40.0 - 40.0 °C	41.1 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	74.0 µm/m-°C @Temperature -40.0 - 40.0 °C	41.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	110 °C	230 °F	Rate B/50; ASTM D1525
	110 °C	230 °F	Rate B/50; ISO 306
	112 °C	234 °F	Rate B/120; ISO 306

Thermal Properties Flammability, UL 94	Metric	English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	34 %	34 %	ISO 4589
Glow Wire Test	725 °C	1340 °F	IEC 60695-2-13
	725 °C	1340 °F	IEC 60695-2-13
	725 °C	1340 °F	IEC 60695-2-13
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.91	2.91	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.91	2.91	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.0032	0.0032	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0032	0.0032	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A

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