

SABIC Innovative Plastics NORYL RN0611 PPE+HIPS (Europe-Africa-Middle East)

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

Material Notes:

Noryl RN0611 is an unfilled Post Consumer recycle (PCR) based injection moldable modified polyphenylene ether resin comprising at least 30% 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 RN0611 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-RN0611-PPEHIPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Melt Index of Compound	17 g/10 min	17 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 280 °C	@Load 2.65 lb, Temperature 536 °F	
	35 g/10 min	35 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 280 °C	@Load 4.76 lb, Temperature 536 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
	46.0 MPa	6670 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	50 mm/min; ISO 527
	47.0 MPa	6820 psi	50 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
	3.0 %	3.0 %	50 mm/min; ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527
	2.30 GPa	334 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	71.0 MPa	10300 psi	2 mm/min; ISO 178

Mechanical Properties	Metric ^{Pa}	English ^{psi}	Comments
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
	2.30 GPa	334 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
	0.300 J/cm	0.562 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.0 µm/m-°C	42.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	77.0 µm/m-°C	42.8 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	79.0 µm/m-°C	43.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 °C	176 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	annealed; ASTM D648
Vicat Softening Point	99.0 °C	210 °F	Rate B/50; ASTM D1525

Thermal Properties	Metric	English	Comments
	101 °C	214 °F	Rate B/120; ISO 306
UL RTI, Electrical	65.0 °C	149 °F	UL 746B
UL RTI, Mechanical with Impact	65.0 °C	149 °F	UL 746B
UL RTI, Mechanical without Impact	65.0 °C	149 °F	UL 746B
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94
Oxygen Index	30 %	30 %	ISO 4589

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.7 @Frequency 1.00e+6 Hz	2.7 @Frequency 1.00e+6 Hz	ASTM D150
	2.7 @Frequency 1.00e+6 Hz	2.7 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.0029 @Frequency 1.00e+6 Hz	0.0029 @Frequency 1.00e+6 Hz	ASTM D150
	0.0029 @Frequency 1.00e+6 Hz	0.0029 @Frequency 1.00e+6 Hz	IEC 60250
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	UL 746A

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