

SABIC Innovative Plastics NORYL PX0844 PPE+PS

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

Material Notes:

PPE+PS blend. Unfilled. UL94 HB rated. Low water absorption. Hydrolytic stability. Dimensional stability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX0844-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	13.7 g/10 min	13.7 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength at Break	43.0 MPa	6240 psi	ISO 527
	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	ISO 527
	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	27 %	27 %	Type I, 50 mm/min; ASTM D638
	43 %	43 %	ISO 527
Elongation at Yield	2.9 %	2.9 %	ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.29 GPa	332 ksi	5 mm/min; ASTM D638
	2.35 GPa	341 ksi	1 mm/min; ISO 527
Flexural Strength	78.0 MPa	11300 psi	ISO 178
Flexural Yield Strength	75.0 MPa	10900 psi	2.6 mm/min, 100 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.24 GPa	325 ksi	2.6 mm/min, 100 mm span; ASTM D790
	2.40 GPa	348 ksi	ISO 178
	2.55 GPa	370 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.34 J/cm	4.38 ft-lb/in	ASTM D256
	1.33 J/cm	2.49 ft-lb/in	ASTM D256
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	1.75 J/cm	3.28 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	17.0 kJ/mÂ²	8.09 ft-lb/inÂ²	80*10*4; ISO 180/1A
	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.70 J/cmÂ²	8.09 ft-lb/inÂ²	ISO 179/2C
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179/2C
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Âµm/m-Â°C	41.0 Âµin/in-Â°F	ASTM E 831
	@Temperature 0.000 - 100 Â°C	@Temperature 32.0 - 212 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	122 Â°C	252 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	120 Â°C	248 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	121 Â°C	250 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa	107 Â°C	225 Â°F	Edgew 120*10*4 sp=100mm; ISO

(264 psi) Thermal Properties	Metric	English	75/Ae Comments
	105 Â°C @Thickness 3.20 mm	221 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	112 Â°C @Thickness 6.40 mm	234 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	125 Â°C	257 Â°F	Rate B/50; ISO 306
	128 Â°C	262 Â°F	Rate B/120; ISO 306

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