

SABIC Innovative Plastics Noryl PPX PPX615 PPE+PP

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polypropylene (PP)

Material Notes:

Good chemical resistance. Designed for a balance of stiffness and practical impact strength. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-PPX-PPX615-PPEPP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D 792
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.030 %	0.030 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.040 % @Temperature 23.0 ^o C	0.040 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	on tensile bar; SABIC Method
	0.0030 - 0.0040 cm/cm @Thickness 3.20 mm	0.0030 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0030 - 0.0080 cm/cm @Thickness 3.20 mm	0.0030 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	4.4 g/10 min @Load 5.00 kg, Temperature 260 ^o C	4.4 g/10 min @Load 11.0 lb, Temperature 500 ^o F	ASTM D 1238
	5.0 g/10 min @Load 5.00 kg, Temperature 260 ^o C	5.0 g/10 min @Load 11.0 lb, Temperature 500 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D 638
	59.0 MPa	8560 psi	5 mm/min; ISO 527
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D 638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D 638

Mechanical Properties	5.0 % Metric	5.0 % English	5 mm/min; ISO 527 Comments
Elongation at Yield	4.2 %	4.2 %	5 mm/min; ISO 527
	4.3 %	4.3 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	3.49 GPa	506 ksi	5 mm/min; ASTM D 638
	4.04 GPa	586 ksi	1 mm/min; ISO 527
Flexural Yield Strength	92.0 MPa	13300 psi	1.3 mm/min, 50 mm span; ASTM D 790
	92.0 MPa	13300 psi	2 mm/min; ISO 178
Flexural Modulus	3.06 GPa	444 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	3.53 GPa	512 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.07 J/cm	2.00 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	5.82 J/cm	10.9 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	38.0 kJ/m ²	18.1 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.10 J/cm ²	19.5 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.10 J/cm ²		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Charpy Impact, Notched	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	15.0 J @Temperature 23.0 °C	11.1 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.0 µm/m-°C @Temperature -40.0 - 40.0 °C	27.2 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	49.0 µm/m-°C @Temperature -40.0 - 40.0 °C	27.2 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	98.0 µm/m-°C @Temperature -40.0 - 40.0 °C	54.4 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	98.0 µm/m-°C @Temperature -40.0 - 40.0 °C	54.4 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	148 °C	298 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	150 °C @Thickness 3.20 mm	302 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	122 °C	252 °F	Flatw 80*10*4 sp=64mm; ISO 75/af
	127 °C @Thickness 3.20 mm	261 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	123 °C	253 °F	Rate B/50; ASTM D 1525
	123 °C	253 °F	Rate B/50; ISO 306
	124 °C	255 °F	Rate B/120; ISO 306

Thermal Properties Flammability, UL 94	MP Metric	MP English	Comments UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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