

## SABIC Innovative Plastics NORYL PPX PPX7200 PPE+PP+PS

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

### Material Notes:

PP+PPE+PS. Improved chemical resistance and surface aesthetics in injection molded applications. NSF61-capable. UL-94 HB listed.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-PPX-PPX7200-PPEPPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PPX-PPX7200-PPEPPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.990 g/cc	0.990 g/cc	ASTM D792
Density	0.990 g/cc	0.0358 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0200 %	0.0200 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.050 %	0.050 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 5.00 kg, Temperature 260 <sup>o</sup> C	16 g/10 min @Load 11.0 lb, Temperature 500 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	18 g/10 min @Load 5.00 kg, Temperature 260 <sup>o</sup> C	18 g/10 min @Load 11.0 lb, Temperature 500 <sup>o</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	27.0 MPa	3920 psi	Type I, 50 mm/min; ASTM D638
	28.0 MPa	4060 psi	50 mm/min; ISO 527
Tensile Strength, Yield	33.0 MPa	4790 psi	Type I, 50 mm/min; ASTM D638
	34.0 MPa	4930 psi	50 mm/min; ISO 527
Elongation at Break	115 %	115 %	50 mm/min; ISO 527
	130 %	130 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	8.2 %	8.2 %	50 mm/min; ISO 527
	10 %	10 %	Type I, 50 mm/min; ASTM D638

Tensile Modulus Mechanical Properties	1.24 GPa Metric	180 ksi English	50 mm/min; ASTM D638 Comments
	1.67 GPa	242 ksi	1 mm/min; ISO 527
Flexural Yield Strength	48.0 MPa	6960 psi	1.3 mm/min, 50 mm span; ASTM D790
	48.0 MPa	6960 psi	2 mm/min; ISO 178
Flexural Modulus	1.44 GPa	209 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.60 GPa	232 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.49 J/cm	2.79 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.41 J/cm	27.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	8.00 kJ/m <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	NB	NB	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	36.0 J	26.6 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	99.0 Åµm/m-Å°C	55.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	

Thermal Properties	99.0 Åµm/m-Å°C Metric	55.0 Åµin/in-Å°F English	Comments ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	108 Åµm/m-Å°C	60.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	108 Åµm/m-Å°C	60.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	110 Å°C	230 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	73.0 Å°C	163 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	71.0 Å°C	160 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	103 Å°C	217 Å°F	Rate B/50; ISO 306
	107 Å°C	225 Å°F	Rate B/120; ISO 306
	146 Å°C	295 Å°F	Rate B/50; ASTM D1525

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