

## SABIC Innovative Plastics NORYL FE1740PW PPE+PS (Europe-Africa-Middle East)

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

### Material Notes:

Noryl\* FE1740PW Polyphenylene Oxide (PPO) + Polystyrene (PS) resin is a 40 % Glass Reinforced, injection moldable grade with improved hydrolytic stability and with a Tensile Modulus > 11000 MPa; this grade has been developed for fluid engineering applications where higher static stiffness is required. Noryl\* FE1740PW has been certified for potable water applications up to 85C in Europe and North America in limited colours.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-FE1740PW-PPEPS-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-FE1740PW-PPEPS-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.00090 - 0.0015 cm/cm @Thickness 3.20 mm	0.00090 - 0.0015 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 300 °C	10 g/10 min @Load 11.0 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	20 g/10 min @Load 10.0 kg, Temperature 300 °C	20 g/10 min @Load 22.0 lb, Temperature 572 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	5 mm/min; ISO 527
	165 MPa	23900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.8 %	1.8 %	5 mm/min; ISO 527
Tensile Modulus	11.3 GPa	1640 ksi	1 mm/min; ISO 527
	13.8 GPa	2000 ksi	5 mm/min; ASTM D638
Flexural Strength	195 MPa	28300 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	9.50 GPa	1380 ksi	2 mm/min; ISO 178
Flexural Modulus	11.7 GPa	1700 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.08 J/cm	2.02 ft-lb/in	ASTM D256
	0.900 J/cm @Temperature -30.0 °C	1.69 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Unnotched (ISO)	30.0 kJ/m <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
	30.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	14.3 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Dart Drop, Total Energy	18.0 J @Temperature 23.0 °C	13.3 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature -40.0 - 40.0 °C	11.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	147 °C	297 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	148 °C @Thickness 3.20 mm	298 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	151 °C	304 °F	Rate B/50; ASTM D1525
	152 °C	306 °F	Rate B/50; ISO 306
	161 °C	322 °F	Rate B/120; ISO 306

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