

SABIC Innovative Plastics Noryl PKN4717 PPE+HIPS (Europe-Africa-Middle East)

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

Material Notes:

NORYL PKN4717 is a PPO+PS concentrate for dilution with polystyrene resin for foam extrusion. It is suitable for (microwavable) food packaging and is compliant with US and European food contact regulations. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-PKN4717-PPEHIPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Water Absorption	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	ASTM D 570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.0 MPa	12500 psi	50 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	3.35 GPa	486 ksi	1 mm/min; ISO 527
Flexural Yield Strength	105 MPa	15200 psi	2 mm/min; ISO 178
Flexural Modulus	2.60 GPa	377 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
	3.00 kJ/m ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.200 J/cm ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	142 Â°C	288 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	152 Â°C	306 Â°F	Rate A/50; ISO 306

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