

SABIC Innovative Plastics NORYL PKN4752 PPE+PS

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

Material Notes:

PPE+PS blend. High Heat. Translucent with yellow tint in natural color. FDA compliant. Extrusion and Injection Molding. Typical applications include High Performance Food Packaging, Electronics and Healthcare Packaging.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PKN4752-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	86.0 MPa	12500 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	15 %	15 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	136 MPa	19700 psi	2.6 mm/min, 100 mm span; ASTM D790
	144 MPa	20900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.94 GPa	426 ksi	2.6 mm/min, 100 mm span; ASTM D790
	3.15 GPa	457 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	

Thermal Properties	Metric $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	English $\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	160 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	320 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	151 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	304 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
	151 $\text{Å}^\circ\text{C}$ @Thickness 6.40 mm	304 $\text{Å}^\circ\text{F}$ @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	173 $\text{Å}^\circ\text{C}$	343 $\text{Å}^\circ\text{F}$	Rate B/50; ASTM D1525

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