

SABIC Innovative Plastics NORYL WCP921A PPE-TPE

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyphenylene Ether/PPO

Material Notes:

Flexible Noryl® injection molding grade. Low specific gravity with good non-halogenated flame retardant performance. Developed for overmolding applications such as plugs, strain reliefs, and connectors. UL 94 V-0 performance with good processability. GreenScreen Approved.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCP921A-PPE-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.10 % @Time 173000 sec	0.10 % @Time 48.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Time 86400 sec	0.0040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 cm/cm @Time 86400 sec	0.0040 in/in @Time 24.0 hour	ASTM D955
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 250 Â°C	10 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238
	12 g/10 min @Load 5.00 kg, Temperature 210 Â°C	12 g/10 min @Load 11.0 lb, Temperature 410 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	30S reading; ASTM D2240
Tensile Strength at Break	9.00 MPa	1310 psi	Type I, 50 mm/min; ASTM D638
	9.00 MPa	1310 psi	50 mm/min; ISO 527
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D638
	120 %	120 %	50 mm/min; ISO 527
Flexural Modulus	0.110 GPa	16.0 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.110 GPa	16.0 ksi	12.5 mm/min; ISO 178

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	UL 94
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	775 Â°C	1430 Â°F	IEC 60695-2-13
	850 Â°C @Thickness 3.00 mm	1560 Â°F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+15 ohm-cm	4.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	23.0 kV/mm @Thickness 2.00 mm	584 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0060 @Frequency 1.00e+6 Hz	0.0060 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

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