

SABIC Innovative Plastics NORYL WCP761 PPE-TPE

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

Material Notes:

Flexible Noryl injection molding grade. Low specific gravity with very good non-halogenated flame retardant performance. Developed for evaluation in overmolding applications such as plugs, strain relief's, and connectors. UL94 V-0 performance with good processability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCP761-PPE-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage, Flow	0.0108 cm/cm	0.0108 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	14.5 g/10 min	14.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 210 Â°C	@Load 11.0 lb, Temperature 410 Â°F	
	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 250 Â°C	@Load 4.76 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	30S reading; ASTM D2240
Tensile Strength at Break	7.00 MPa	1020 psi	Type I, 50 mm/min; ASTM D638
	8.00 MPa	1160 psi	50 mm/min; ISO 527
Elongation at Break	165 %	165 %	Type I, 50 mm/min; ASTM D638
	165 %	165 %	50 mm/min; ISO 527
Flexural Modulus	0.0400 GPa	5.80 ksi	12.5 mm/min; ISO 178
	0.0500 GPa	7.25 ksi	12.5 mm/min, 100 mm span; ASTM D790
Tear Strength	16.0 kN/m	91.3 pli	ISO 6383

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 6.00 mm	@Thickness 0.236 in	
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	775 Â°C	1430 Â°F	IEC 60695-2-13
	960 Â°C	1760 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+16 ohm-cm	1.30e+16 ohm-cm	ASTM D257
Dielectric Constant	2.5	2.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	in oil; IEC 60243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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