

SABIC Innovative Plastics NORYL WCP700 PPE-TPE

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

Material Notes:

Flexible PPE-TPE injection grade suitable for over-molding applications such as plugs, strain relief's, and connectors. Good processability. 70 Shore A hardness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCP700-PPE-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.930 g/cc	0.930 g/cc	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage, Flow	0.0048 cm/cm	0.0048 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0033 cm/cm	0.0033 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	10 g/10 min	10 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Â°C	@Load 11.0 lb, Temperature 392 Â°F	
	17 g/10 min	17 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 210 Â°C	@Load 11.0 lb, Temperature 410 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	30S reading; ASTM D2240
Tensile Strength at Break	4.00 MPa	580 psi	50 mm/min; ISO 527
	5.00 MPa	725 psi	
Elongation at Break	>= 400 %	>= 400 %	Type I, 50 mm/min; ASTM D638
	>= 400 %	>= 400 %	
Flexural Modulus	0.0500 GPa	7.25 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.0500 GPa	7.25 ksi	
Tear Strength	46.0 kN/m	262 pli	ISO 6383

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+16 ohm-cm	1.70e+16 ohm-cm	IEC 60093
Dielectric Constant	2.4	2.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	26.0 kV/mm	660 kV/in	in oil; IEC 60243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.00050	0.00050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	0.037	0.037	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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