

SABIC Innovative Plastics NORYL WCP781 PPE-TPE

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

Material Notes:

Flexible PPE-TPE injection grade. Low specific gravity with very good halogen free flame retardant performance. Suitable for over-molding applications such as plugs, strain relief's, and connectors. UL 94-V0 performance with good processability. 80 Shore A hardness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCP781-PPE-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Water Absorption	0.23 %	0.23 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage, Flow	0.0049 cm/cm	0.0049 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0073 cm/cm	0.0073 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	13.5 g/10 min	13.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 210 Â°C	@Load 11.0 lb, Temperature 410 Â°F	
	17.4 g/10 min	17.4 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	80	80	30S reading; ASTM D2240
Tensile Strength at Break	13.0 MPa	1890 psi	Type I, 50 mm/min; ASTM D638
	13.0 MPa	1890 psi	
Elongation at Break	168 %	168 %	50 mm/min; ISO 527
	175 %	175 %	
Flexural Modulus	0.0600 GPa	8.70 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.0800 GPa	11.6 ksi	
Tear Strength	8.00 kN/m	45.6 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	25 %	25 %	ISO 4589
Glow Wire Test	725 Â°C	1340 Â°F	IEC 60695-2-13
	850 Â°C	1560 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.80e+14 ohm-cm	3.80e+14 ohm-cm	IEC 60093
Dielectric Constant	3.1	3.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	22.0 kV/mm	559 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	
	0.0050	0.0050	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	142	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	84	ASTM E 662

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