

SABIC Innovative Plastics NORYL WCP821U PPE-TPE (Asia Pacific)

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

Material Notes:

UV stabilized, halogen free Flexible Noryl injection molding grade for overmolding applications such as plugs, strain relief's, and connectors. Good color stability after UV weathering per ASTM D4459. Light color capable. UL94 V-0 performance with good processability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCP821U-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 - 1.12 g/cc	1.05 - 1.12 g/cc	ASTM D792
Water Absorption	0.10 % @Time 173000 sec	0.10 % @Time 48.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Time 86400 sec	0.0080 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.013 cm/cm @Time 86400 sec	0.013 in/in @Time 24.0 hour	ASTM D955
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 210 Â°C	14 g/10 min @Load 4.76 lb, Temperature 410 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	30S reading; ASTM D2240
Tensile Strength at Break	8.00 MPa	1160 psi	50 mm/min; ISO 527
	9.00 MPa	1310 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	90 %	90 %	50 mm/min; ISO 527
	95 %	95 %	Type I, 50 mm/min; ASTM D638
Flexural Modulus	0.130 GPa	18.9 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.170 GPa	24.7 ksi	12.5 mm/min; ISO 178

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

Thermal Properties	Metric	English	Comments
Flammability, UL 94	HB	HB	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	
V-0	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
	750 Â°C	1380 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.40e+15 ohm-cm	3.40e+15 ohm-cm	ASTM D257
Dielectric Constant	2.7	2.7	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	24.5 kV/mm	622 kV/in	in oil; IEC 60243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.0040	0.0040	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	126	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	147	ASTM E 662

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