

SABIC Innovative Plastics NORYL WCP921 PPE-TPE (Asia Pacific)

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 evaluation in overmolding applications such as plugs, strain reliefs, and connectors. UL 94 V-0 performance with good processability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCP921-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0065 cm/cm	0.0065 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 210 Â°C	@Load 11.0 lb, Temperature 410 Â°F	
	17 g/10 min	17 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	88	88	30S reading; ASTM D2240
Tensile Strength at Break	15.0 MPa	2180 psi	Type I, 50 mm/min; ASTM D638
	15.0 MPa	2180 psi	
Elongation at Break	140 %	140 %	50 mm/min; ISO 527
	150 %	150 %	
Flexural Modulus	0.180 GPa	26.1 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.200 GPa	29.0 ksi	

Thermal Properties	Metric	English	Comments
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Brittleness Temperature Thermal Properties	$\leq -40.0 \text{ }^\circ\text{C}$ Metric	$\leq -40.0 \text{ }^\circ\text{F}$ English	ASTM D746 Comments
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	725 $^\circ\text{C}$	1340 $^\circ\text{F}$	IEC 60695-2-13
	850 $^\circ\text{C}$ @Thickness 3.00 mm	1560 $^\circ\text{F}$ @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.10e+15 ohm-cm	7.10e+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	25.0 kV/mm @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.029 @Frequency 1.00e+6 Hz	0.029 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

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