

SABIC Innovative Plastics NORYL WCP921 PPE-TPE (Europe-Africa-Middle East)

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-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.060 % @Time 173000 sec	0.060 % @Time 48.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0055 cm/cm @Time 86400 sec	0.0055 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0065 cm/cm @Time 86400 sec	0.0065 in/in @Time 24.0 hour	ASTM D955
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 210 Â°C	15 g/10 min @Load 11.0 lb, Temperature 410 Â°F	ASTM D1238
	17 g/10 min @Load 2.16 kg, Temperature 250 Â°C	17 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238

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	50 mm/min; ISO 527
Elongation at Break	140 %	140 %	50 mm/min; ISO 527
	150 %	150 %	Type I, 50 mm/min; ASTM D638
Flexural Modulus	0.180 GPa	26.1 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.200 GPa	29.0 ksi	12.5 mm/min; ISO 178

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	$7.10\text{e}+15\text{ ohm-cm}$	$7.10\text{e}+15\text{ ohm-cm}$	ASTM D257
Dielectric Constant	2.8	2.8	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	0.029	0.029	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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