

Techmer ES Plastiblend® APC100 UV

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Availability: North America Forms: Pellets Additive: UV Stabilizer Features: Good UV Resistance Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-APC100-UV.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	5.5 g/10 min @Load 3.80 kg, Temperature 230 °C	5.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238
	16 g/10 min @Load 5.00 kg, Temperature 260 °C	16 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	45.5 MPa	6600 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	6.94 J/cm @Thickness 3.17 mm	13.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	121 °C	250 °F	Unannealed; ASTM D648

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	113 °C Metric	235 °F English	Unannealed; ASTM D648 Comments
Flammability, UL94	HB	HB	

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