

## Techmer ES Plastiblend® PC/PBT IM 1799 BK

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

### Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier Features: Impact Modified Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Plastiblend-PCPBT-IM-1799-BK.php](http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PCPBT-IM-1799-BK.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	16 g/10 min	16 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 265 °C	@Load 11.0 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Flexural Yield Strength	95.1 MPa	13800 psi	ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
Izod Impact, Notched	7.47 J/cm	14.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 °C	@Thickness 0.125 in, Temperature 73.0 °F	
Dart Drop, Total Energy	6.21 J	4.58 ft-lb	ASTM D3763
	@Temperature -28.9 °C	@Temperature -20.0 °F	
Dart Drop, Total Energy	6.33 J	4.67 ft-lb	ASTM D3763
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Mechanical Properties	<sup>°C</sup> Metric	English	Comments
CTE, linear, Parallel to Flow	81.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	118 $\text{Å}^\circ\text{C}$	245 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

## Contact Songhan Plastic Technology Co.,Ltd.

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