

Samyang Tribit® 1800H PBT, Extruding Formality

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Extrusion Grade

Material Notes:

Crystallization is fast, formability is excellent and thermal resistance, chemical resistance, electrical properties and abrasion resistance are excellent. 1800H is an extrusion grade. Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Tribit-1800H-PBT-Extruding-Formality.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
Linear Mold Shrinkage	0.014 - 0.023 cm/cm	0.014 - 0.023 in/in	ASTM D955
Melt Flow	9.5 g/10 min @Load 2.16 kg, Temperature 235 °C	9.5 g/10 min @Load 4.76 lb, Temperature 455 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength	56.9 MPa	8250 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Flexural Yield Strength	78.5 MPa	11400 psi	ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 3.17 mm	0.918 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	155 °C	311 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Dielectric Constant Electrical Properties	3.2 Metric	3.2 English	ASTM D150 Comments
Dielectric Strength	17.0 kV/mm	432 kV/in	ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495

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