

TRIBIT® 1500GN40

Samyang Corporation - Polybutylene Terephthalate

General Information

Product Description

TRIBIT® is a crystalline engineering plastic with excellent processability, chemical resistance, wear resistance, and electrical properties. TRIBIT® has short processing cycle because of rapid crystallization. So it provides good dimensional stability and can be used for automotive or precision parts.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Flame Retardant
Forms	• Pellets

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.65		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	85	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 0.012	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	19200	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.35E+6	psi	ASTM D790
Flexural Strength (Yield)	27000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.5	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	441	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648
CLTE - Flow	1.7E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	510	V/mil	ASTM D149
Dielectric Constant	3.20		ASTM D150
Dissipation Factor	0.016		ASTM D150
Arc Resistance	110	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.030 in)	V-0		UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.

