TRIBIT® 1500G10

Samyang Corporation - *Polybutylene Terephthalate*

General Information

Product Description

TRIBIT® is a crystalline engineering plastic with excellent processablity, 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
Uses	• Automotive Applications	• Automotive Interior Parts	
Forms	• Pellets		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.49		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	34	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 0.012	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.090	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	8960	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	412000	psi	ASTM D790
Flexural Strength (Yield)	14200	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	0.55	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	119		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	437	°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	530	V/mil	ASTM D149
Dielectric Constant	3.20		ASTM D150
Dissipation Factor	0.020		ASTM D150
Arc Resistance	150	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

Notes

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