TRIBIT® 1501N

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
Features	• Flame Retardant		
Uses	• Automotive Applications	• Automotive Interior Parts	
Forms	• Pellets		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.38		ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.010 to 0.017	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.080	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	7820	psi	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	327000	psi	ASTM D790
Flexural Strength (Yield)	11700	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	1.1	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	302	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ASTM D648
CLTE - Flow	5.0E-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	71.0	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.03 in)	V-2		UL 94

Notes

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