

TRIBIT® VS1503

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
Uses	• Automotive Applications	• Automotive Exterior Parts	• Automotive Interior Parts
Forms	• Pellets		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.014 to 0.022	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7680	psi	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	370000	psi	ASTM D790
Flexural Strength (Yield)	11400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.73	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)	293	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	136	°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	430	V/mil	ASTM D149
Dielectric Constant	3.20		ASTM D150
Dissipation Factor	0.020		ASTM D150
Arc Resistance	180	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.

