

TRIBIT® VS1503

Polybutylene Terephthalate

Samyang Corporation

Message:

TRIBIT® VS1503 is a Polybutylene Terephthalate (PBT) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4 to 2.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	53.0	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength (Yield)	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	145	°C	
1.8 MPa, Unannealed	58.0	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	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

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