

TRIBIT® 1550GN10

Polybutylene Terephthalate

Samyang Corporation

Message:

TRIBIT® 1550GN10 is a Polybutylene Terephthalate (PBT) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Flame Retardant

General Information			
UL YellowCard	E116425-237825	E257054-521356	
Features	Flame Retardant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	60	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	78.5	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	3920	MPa	ASTM D790
Flexural Strength (Yield)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	200	°C	
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	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 (0.710 mm)	V-0		UL 94

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