

TRIPET® 2550GN45

Polyethylene Terephthalate

Samyang Corporation

Message:

TRIPET® 2550GN45 is a Polyethylene Terephthalate (PET) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E121254-220651	E257054-521362	E257054-521432
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	50	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	< 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	147	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	12700	MPa	ASTM D790
Flexural Strength (Yield)	177	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	250	°C	
1.8 MPa, Unannealed	225	°C	
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
RTI Elec (3.00 mm)	140	°C	UL 746
RTI Imp (3.00 mm)	140	°C	UL 746
RTI Str (3.00 mm)	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant	3.80		ASTM D150
Dissipation Factor	0.017		ASTM D150
Arc Resistance	80.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-0		UL 94

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