

TRIPET® 2500G45

Samyang Corporation - Polyethylene Terephthalate

General Information

Product Description

TRIPET® has excellent mechanical properties and dimensional stability, and good electrical property, widely used in the field of automobile, electric & electronics.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• Automotive Exterior Parts
Forms	• Pellets

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.70		ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	< 0.10	%	ASTM D570
Mechanical			
Nominal Value Unit Test Method			
Tensile Strength (Yield)	21300	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.42E+6	psi	ASTM D790
Flexural Strength (Yield)	25600	psi	ASTM D790
Impact			
Nominal Value Unit Test Method			
Notched Izod Impact (73°F, 0.125 in)	1.7	ft·lb/in	ASTM D256
Hardness			
Nominal Value Unit Test Method			
Rockwell Hardness (R-Scale)	119		ASTM D785
Thermal			
Nominal Value Unit Test Method			
Deflection Temperature Under Load (66 psi, Unannealed)	482	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	446	°F	ASTM D648
CLTE - Flow	1.7E-5	in/in/°F	ASTM D696
Electrical			
Nominal Value Unit Test Method			
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	640	V/mil	ASTM D149
Dielectric Constant	3.90		ASTM D150
Dissipation Factor	0.016		ASTM D150
Arc Resistance	125	sec	ASTM D495
Flammability			
Nominal Value Unit Test Method			
Flame Rating (0.030 in)	HB		UL 94

Notes

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