

TRIPET® 2500G40

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	• Electrical/Electronic Applications
Forms	• Pellets

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.63		ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	35	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)	19900	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.35E+6	psi	ASTM D790
Flexural Strength (Yield)	24200	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)	121		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	610	V/mil	ASTM D149
Dielectric Constant	3.50		ASTM D150
Dissipation Factor	0.013		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.

