

**TRIPET® LV2550GN45**

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 &amp; electronics.

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• General Purpose
Forms	• Pellets

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.75		ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	50	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
<b>Mechanical</b>			
Tensile Strength (Yield)	21300	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.85E+6	psi	ASTM D790
Flexural Strength (Yield)	25600	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	1.1	ft·lb/in	ASTM D256
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	117		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	428	°F	ASTM D648
CLTE - Flow	1.7E-5	in/in/°F	ASTM D696
RTI Elec (0.12 in)	302	°F	UL 746B
RTI Imp (0.12 in)	302	°F	UL 746B
RTI Str (0.12 in)	302	°F	UL 746B
<b>Electrical</b>			
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	510	V/mil	ASTM D149
Dielectric Constant	3.80		ASTM D150
Dissipation Factor	0.017		ASTM D150
Arc Resistance	80.0	sec	ASTM D495
<b>Flammability</b>			
Flame Rating			UL 94
0.030 in		V-0	
0.06 in		5VA	

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
