

TRIPET® 2500G30

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 | • General Purpose |
| Forms | • Pellets |

 Properties ¹

| | Nominal Value | Unit | Test Method |
|---|------------------|----------|-------------|
| Physical | | | |
| Density / Specific Gravity | 1.56 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (265°C/5.0 kg) | 40 | 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 | | | |
| Tensile Strength (Yield) | 18500 | psi | ASTM D638 |
| Tensile Elongation (Break) | 2.0 | % | ASTM D638 |
| Flexural Modulus | 1.28E+6 | psi | ASTM D790 |
| Flexural Strength (Yield) | 22800 | psi | ASTM D790 |
| Impact | | | |
| Notched Izod Impact (73°F, 0.125 in) | 1.8 | ft·lb/in | ASTM D256 |
| Hardness | | | |
| Rockwell Hardness (R-Scale) | 122 | | ASTM D785 |
| Thermal | | | |
| 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 | | | |
| 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 | | | |
| Flame Rating (0.030 in) | HB | | UL 94 |

Notes

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