

Polimersan Plastics POLITEF® (PTFE) with 25% Carbon

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Carbon Fiber Filled

Material Notes:

As a result of Filled-In POLITEF® alloys, apart from all of its superior properties, POLITEF®, according to its usage areas has gained additional properties as described below:Electrical ConductivityIncrease At Corrosion ResistanceIncrease In Deformation Strength Against Load Decrease In Thermal ExpansionHigh Resistance Against AcidsEasiness At Mechanical Processing StretchingResistance Against StrokeIncrease In Thermal Conductivity Information provided by Polimersan Polimer Kimya San.Tic.Ltd.Sti.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimersan-Plastics-POLITEF-PTFE-with-25-Carbon.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.10 - 2.20 g/cc	2.10 - 2.20 g/cc	ASTM D1457-18
Deformation	5.0 - 6.0 %	5.0 - 6.0 %	230°C, 1 day, 140 kg/cm ² ; ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60 - 67	60 - 67	ASTM D2240
Tensile Strength, Yield	16.2 - 16.7 MPa	2350 - 2420 psi	ASTM D1708
Elongation at Break	155 - 165 %	155 - 165 %	ASTM D1708
Izod Impact, Notched	0.834 J/cm	1.56 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 110 µm/m-°C	44.4 - 61.1 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.98788 W/m-K	6.8448 BTU-in/hr-ft ² -°F	ASTM C177

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.0 - 19.0 kV/mm	330 - 483 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Corrosion	30 - 40 cc-dak/kg-ms	25 - 1000°C
Kinding Temperature	630	°C, ASTM D1929

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