

Technetics Group Amicon™ PET-P (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Information provided by Technetics Group (formerly Plastomer Technologies)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Technetics-Group-Amicon-PET-P-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	24 hours; ASTM D570 (2)
Water Absorption at Saturation	0.90 %	0.90 %	ASTM D570 (2)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	ASTM D2240
Tensile Strength, Ultimate	85.5 MPa	12400 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Modulus of Elasticity	3.17 GPa	460 ksi	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	3.38 GPa	490 ksi	ASTM D790
Compressive Strength	103 MPa	15000 psi	ASTM D695
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256 type "A"
Coefficient of Friction	0.20	0.20	ASTM PTM 55007
K (wear) Factor	121 x 10 ⁻⁸ mm ³ /N-M	60.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	QTM 55010
Limiting Pressure Velocity	0.0981 MPa-m/sec	2800 psi-ft/min	4:1 safety factor

Thermal Properties	Metric	English	Comments
CTE, linear	59.4 µm/m-°C	33.0 µin/in-°F	ASTM E-831 (TMA)
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	98.9 °C	210 °F	
Flammability, UL94	HB	HB	ASTM UL-94
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.2 kV/mm	385 kV/in	ASTM D149

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