

Solvay Specialty Polymers Torlon® 4630 Polyamide-imide (PAI)

Category : Polymer , Thermoplastic , Polyamide-imide (PAI) , Polyamide-Imide, Extruded

Material Notes:

Torlon® 4630 is an injection-moldable, wear-resistant grade of polyamide-imide (PAI), that has been formulated to give outstanding wear resistance in non-lubricated applications. Torlon® PAI has the highest strength and stiffness of any thermoplastic up to 275°C (525°F). It has outstanding resistance to wear, creep and chemicals. Features: Flame Retardant; Good Chemical Resistance; Good Creep Resistance; Good Wear Resistance; High Heat Resistance; High Stiffness; High Temperature Strength; Low Friction Uses: Automotive Applications; Bearings; Bushings Additional Properties: Coefficient of Linear Thermal Expansion - ASTM D696 3.6E-6 cm/cm/°C; Wear Factor - ASTM D3702 6.00 in³·min⁻¹·10/ft·lb·hr; Wear Factor - ASTM D3702 13.5 in³·min⁻¹·10/ft·lb·hr; Wear Factor - ASTM D3702 11.0 in³·min⁻¹·10/ft·lb·hr; Wear Factor - ASTM D3702 1.00 in³·min⁻¹·10/ft·lb·hr Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Torlon-4630-Polyamide-imide-PAI.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in³	ASTM D792
Water Absorption	0.18 % @Time 86400 sec	0.18 % @Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength	81.4 MPa	11800 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Tensile Modulus	7.45 GPa	1080 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	6.83 GPa	991 ksi	ASTM D790
Compressive Strength	99.3 MPa	14400 psi	ASTM D695
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	279 °C	534 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	304 °C	579 °F	

Processing Properties	371 Å°C Metric	700 Å°F English	Comments
Mold Temperature	199 - 216 Å°C	390 - 421 Å°F	
Drying Temperature	177 Å°C @Time 10800 sec	351 Å°F @Time 3.00 hour	
Moisture Content	<= 0.050 %	<= 0.050 %	
Back Pressure	6.89 MPa	999 psi	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

Descriptive Properties	Value	Comments
Additive	PTFE + Graphite Lubricant	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Form	Pellets	
Processing Technique	Injection Molding; Machining; Profile Extrusion	
Screw L/D Ratio	18.0:1.0 to 24.0:1.0	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China