

Solvay Specialty Polymers Torlon® 4601 Polyamide-imide (PAI)

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

Material Notes:

Torlon® 4601 is a specialty wear-resistant grade of polyamide-imide (PAI). Most Torlon® PAI grades cannot be molded successfully in molds with undercuts. Torlon® 4601 has been formulated to be moldable in tools with minor undercuts and give very good performance in lubricated wear applications. Features: Flame Retardant; Good Chemical Resistance; Good Creep Resistance; Good Wear Resistance; High Heat Resistance; High Temperature StrengthUses: Bearings; Industrial ApplicationsInformation provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Torlon-4601-Polyamide-imide-PAI.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength	121 MPa	17500 psi	ASTM D638
Elongation at Break	4.1 %	4.1 %	ASTM D638
Tensile Modulus	4.21 GPa	611 ksi	ASTM D638
Flexural Strength	182 MPa	26400 psi	ASTM D790
Flexural Modulus	4.48 GPa	650 ksi	ASTM D790
Shear Strength	108 MPa	15700 psi	ASTM D732
Izod Impact, Notched	2.30 J/cm	4.31 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.70 J/cm	6.93 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	284 °C	543 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	304 °C	579 °F	
Nozzle Temperature	371 °C	700 °F	
Mold Temperature	199 - 216 °C	390 - 421 °F	
Drying Temperature	177 °C @Time 10800 sec	351 °F @Time 3.00 hour	

Moisture Content Processing Properties	$\leq 0.050\%$ Metric	$\leq 0.050\%$ English	Comments
Back Pressure	6.89 MPa	999 psi	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

Descriptive Properties	Value	Comments
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	

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