Shell Carilon® DA6L1A10 Polyketone, Lubricated Injection Molding Grade (discontinued **)

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Shell announced in Feb. 2000 that the Carilon product line is being discontinued. CARILON Polymer DA6L1A10 is a lubricated injection molding grade with mechanical properties which classify it as an engineering thermoplastic. Designed with demanding tribological applications in mind, such as gears, bearings etc., this cost efficient grade offers a high limiting pressure velocity ratio, low coefficient of friction and low wear. These benefits are achieved without sacrificing the toughness, moisture resistance and good fatigue performance which characterize the base polymer. CARILON Polymer DA6L1A10 can withstand short-term exposure to elevated temperatures. Moreover this polymer exhibits high resistance to hydrocarbons and other chemicals. CARILON Polymer DA6L1A10 is easy to process on standard injection molding equipment. Cycle times are generally short. Parts show good mold definition and little or no warpage. CARILON Polymers' low moisture sensitivity means that no conditioning of parts before assembly or use is necessary.Data provided by Shell Chemical.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Shell-Carilon-DA6L1A10-Polyketone-Lubricated-Injection-Molding-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in³	ASTM D792
Water Absorption	0.48 %	0.48 %	24 hour immersion; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	23 %	23 %	ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	ASTM D638
Flexural Modulus	1.70 GPa	247 ksi	ASTM D790
Izod Impact, Notched	2.30 J/cm	4.31 ft-lb/in	
Izod Impact, Unnotched	NB	NB	ASTM D256
Coefficient of Friction, Dynamic	0.14	0.14	Thrust washer testing against steel at 0.05 m/s (2 in/s) and 2 MPa
Limiting Pressure Velocity	1.60 MPa-m/sec	45700 psi-ft/min	at 0.5 m/s

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	
Deflection Temperature at 0.46 MPa (66 psi)	204 °C	399 °F	ASTM D648
Deflection Temperature at 1.8 MPa			

Thermal Properties	Metric	English	Comments
(264 psi)	96.0 °C	205 °F	ASTM D648

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