Shell Carilon® DA6P2L10 Polyketone, High Performance 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 DA6P2L10 is a high-performance 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 exceptional 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 DA6P2L10 can withstand short-term exposure to elevated temperatures. Moreover, this polymer exhibits a high resistance to hydrocarbons and other chemicals. CARILON Polymer DA6P2L10 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-DA6P2L10-Polyketone-High-Performance-Lubricated-Injection-Molding-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in³	ASTM D792
Water Absorption	0.39 %	0.39 %	24 hour immersion; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	26 %	26 %	ASTM D638
Tensile Modulus	1.50 GPa	218 ksi	ASTM D638
Flexural Modulus	1.50 GPa	218 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.21	0.21	Thrust washer testing against steel at 0.05 m/s (2 in/s) and 2 MPa
Limiting Pressure Velocity	1.50 MPa-m/sec	42800 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)	199 °C	390 °F	ASTM D648
Deflection Temperature at 1.8 MPa	96.0 °C	205 °F	ASTM D648

(264 psi)

Thermal Properties	Metric	English	Comments

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