

Shell Carilon® DB6F5G40 Polyketone, Flame-Retarded (V-0), 20% Glass-Reinforced Injection Molding Grade (disco

Category: Polymer, Thermoplastic, Polyketone, Polyketone, Glass Fiber Reinforced

Material Notes:

Shell announced in Feb. 2000 that the Carilon product line is being discontinued. CARILON Polymer DB6F5G40 is a flame-retarded, 20 percent glass-fiber-reinforced, injection molding grade with mechanical properties which classify it as an engineering thermoplastic. This high-modulus grade offers a UL94 V-0 rating and high glow-wire index without the use of halogenated or red phosphorus flame retardants. The benign flame-retardant system used for CARILON Polymer DB6F5G40 ensures that the smoke density and toxicity are both low. Yet this grade retains the exceptional blend of properties of the base polymer, such as low moisture absorption, good toughness and high resistance to a wide range of chemicals. CARILON Polymer DB6F5G40 is easy to process on standard injection molding equipment. Cycle times are generally short and parts show good mold definition. 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-DB6F5G40-Polyketone-Flame-Retarded-V-0-20-Glass-Reinforced-Injection-Molding-Grade-nbspdisco.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in³	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hour immersion; ASTM D570
Moisture Absorption at Equilibrium	0.45 %	0.45 %	at 50% RH at Equilibrium; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	8.00 GPa	1160 ksi	ASTM D638
Flexural Modulus	6.40 GPa	928 ksi	ASTM D790
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	
Deflection Temperature at 1.8 MPa	210 °C	410 °F	ASTM D648



(264 nst) Thermal Properties	Metric	English	Comments	
Flammability, UL94	V-0	V-0		

Electrical Properties	Metric	English	Comments	
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257	
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257	
Dielectric Constant	5.5	5.5	ASTM D150	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
Dielectric Strength	41.0 kV/mm	1040 kV/in	Short Term; ASTM D149	
	@Thickness 0.800 mm	@Thickness 0.0315 in		
Dissipation Factor	0.030	0.030	ASTM D150	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
Arc Resistance	120 - 180 sec	120 - 180 sec	UL-746A rating 5 (120-180 sec)	
Comparative Tracking Index	250 V	250 V	UL746A	

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