

## Shell Carilon® DB6F0A10 Polyketone, Flame-Retarded (V-0) 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 DB6F0A10 is a flame-retarded injection molding grade with mechanical properties which classify it as an engineering thermoplastic. This grade offers UL94 V-0 rating, high comparative tracking and glow-wire indices, all without the use of halogenated or red phosphorus flame retardants. The benign flame-retardant system used for CARILON Polymer DB6F0A10 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 DB6F0A10 is easy to process on standard injection-molding equipment. Cycle times are generally short. Parts are warp-free and show good mold definition with mar-resistant surfaces. 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-DB6F0A10-Polyketone-Flame-Retarded-V-0-Injection-Molding-Grade-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Shell-Carilon-DB6F0A10-Polyketone-Flame-Retarded-V-0-Injection-Molding-Grade-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	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	0.014 cm/cm	0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	38.0 MPa	5510 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Modulus of Elasticity	2.70 GPa	392 ksi	ISO 527-1
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
Charpy Impact Unnotched	NB	NB	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	Metric	English	Comments
Oxygen Index	36	36	ISO 4509

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257
Dielectric Constant	5.8	5.8	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	43.0 kV/mm	1090 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	60 - 120 sec	60 - 120 sec	UL-746A rating 6 (60-120 sec)
Comparative Tracking Index	500 V	500 V	UL746A

## Contact Songhan Plastic Technology Co.,Ltd.

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