

## Shell Carilon® DB6G3A10 Polyketone, 15% Glass-Reinforced General-Purpose Injection Molding Grade (discontinue)

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 DB6G3A10 is a 15 percent short glass-fiber-reinforced general-purpose injection molding grade with mechanical properties that classify it as an engineering thermoplastic. This grade shows a unique balance of toughness and high modulus combined with good creep performance, strength and elevated temperature performance. Moreover this polymer exhibits high resistance to hydrocarbons, solvents, salt solutions, weak acids and weak bases.

CARILON Polymer DB6G3A10 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-DB6G3A10-Polyketone-15-Glass-Reinforced-General-Purpose-Injection-Molding-Grade-nbspdiscontinue.php](http://www.lookpolymers.com/polymer_Shell-Carilon-DB6G3A10-Polyketone-15-Glass-Reinforced-General-Purpose-Injection-Molding-Grade-nbspdiscontinue.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.50 %	0.50 %	24 hour immersion; ASTM D570
Moisture Absorption at Equilibrium	0.14 %	0.14 %	at 50% RH at Equilibrium; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	6.1 %	6.1 %	ASTM D638
Tensile Modulus	4.10 GPa	595 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	at 5% strain; ASTM D790
Flexural Modulus	3.90 GPa	566 ksi	ASTM D790
Izod Impact, Notched	0.830 J/cm	1.55 ft-lb/in	ASTM D256
	0.640 J/cm @Temperature -40.0 °C	1.20 ft-lb/in @Temperature -40.0 °F	
Izod Impact, Unnotched	8.25 J/cm	15.5 ft-lb/in	ASTM D256
Charpy Impact Unnotched	6.60 J/cm <sup>2</sup>	31.4 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	

Thermal Properties	Metric	English	Comments
Thermal Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	218 °C	424 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 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	
	6.4	6.4	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	26.0 kV/mm	660 kV/in	Short Term; ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.050	0.050	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China