

## Shell Carilon® D26FX100 Polyketone, General-Purpose Extrusion Grade (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyketone

### Material Notes:

Shell announced in Feb. 2000 that the Carilon product line is being discontinued. CARILON Polymer D26FX100 is a general-purpose extrusion grade with mechanical properties that classify it as an engineering thermoplastic. This grade exhibits high chemical resistance and barrier performance. Moreover, this grade shows a high impact resistance, both at room temperature and at lower temperatures, and good creep performance. CARILON Polymer D26FX100 can also withstand short-term exposure to elevated temperatures. CARILON Polymer D26FX100 is processable on standard extrusion equipment and may be considered for the production of tubes, industrial hoses, monofilaments, coatings for cable and wire. It is also possible to coextrude CARILON Polymer D26FX100 with other materials, typically to be employed as a barrier layer in containment applications. Data provided by Shell Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Shell-Carilon-D26FX100-Polyketone-General-Purpose-Extrusion-Grade-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Shell-Carilon-D26FX100-Polyketone-General-Purpose-Extrusion-Grade-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.021 %	0.021 %	At Saturation; ASTM D570
Water Absorption at Saturation	2.1 %	2.1 %	at saturation; ASTM D570
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 240 °C	6.0 g/10 min @Load 4.76 lb, Temperature 464 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Hardness, Shore D	75	75	ISO 868
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
Elongation at Yield	25 %	25 %	ASTM D638
Tensile Modulus	1.60 GPa	232 ksi	ASTM D638
Flexural Strength	55.0 MPa	7980 psi	at 5% strain; ASTM D790
Flexural Modulus	1.60 GPa	232 ksi	ASTM D790
Izod Impact, Notched	2.40 J/cm	4.50 ft-lb/in	

Mechanical Properties	0.500 J/cm Metric	0.937 ft-lb/in English	Comments ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched	NB	NB	ASTM D256
Charpy Impact Unnotched	NB	NB	ISO 179
	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	ISO 179
	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Taber Abrasion, mg/1000 Cycles	12	12	1 kg load; CS-17 Wheel; ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	
Maximum Service Temperature, Air	90.0 °C	194 °F	UL-746B Long Term Relative temperature Index; Mechanical w/o Impact
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ASTM D648
Vicat Softening Point	210 °C	410 °F	ASTM D1525
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL-746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL-746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Flammability, UL94	HB	HB	
Oxygen Index	21 %	21 %	ISO 4589

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	UL-746A rating 6 (60-120 sec)
Comparative Tracking Index	>= 600 V	>= 600 V	UL746A

Processing Properties	Metric	English	Comments
Processing Temperature	240 °C	464 °F	At Die

Processing Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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