

Covestro Petlon® 4630 Semi-Crystalline PET, 30% Glass Fiber (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

Material Notes:

Characteristics: Flame Retardant: Electrical Properties, High Heat and Chemical Resistance Applications: Connectors, Relays, Switches, Automotive (Under Hood), Appliances Processing: Injection Molding (Melt Temperature: 495-530°F, Mold Temperature: 195-250°F) Petlon® is manufactured by Albis Plastics Corporation and is a registered trademark of Bayer Corporation. As of 1 September 2015, Bayer MaterialScience was separated from Bayer AG and has officially adopted its new name – Covestro. This product was discontinued prior to the separation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Petlon-4630-Semi-Crystalline-PET-30-Glass-Fiber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in³	ASTM D792
Water Absorption	0.040 %	0.040 %	(24 hr); ASTM D570
Moisture Absorption at Equilibrium	0.13 %	0.13 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	86	86	ASTM D785
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	148.9 MPa	21600 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	222 MPa	32200 psi	ASTM D790
Flexural Modulus	10.69 GPa	1550 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 µm/m-°C	11.7 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	150 °C	302 °F	RTI
Deflection Temperature at 1.8 MPa	225 °C	437 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Vicat Softening Point	>= 225 °C	>= 437 °F	ASTM D1525
UL RTI, Mechanical without Impact	150 °C	302 °F	
Flammability, UL94	V-0	V-0	0.028 in

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7 @Frequency 60 Hz	3.7 @Frequency 60 Hz	ASTM D150
Dielectric Strength	22.7 kV/mm	577 kV/in	ASTM D149
Arc Resistance	111 sec	111 sec	ASTM D495
Comparative Tracking Index	220 V	220 V	ASTM D3638

Processing Properties	Metric	English	Comments
Melt Temperature	257 - 277 °C	495 - 531 °F	Injection
Mold Temperature	91.0 - 121 °C	196 - 250 °F	

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