

Covestro Petlon® 8535 Semi-Crystalline PET, 35% Mineral/Glass Fiber (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

Characteristics: Impact Modified: Excellent Electrical Properties, High Heat Resistance
Applications: Automotive (Under Hood), Appliances, Casings and Housings
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-8535-Semi-Crystalline-PET-35-MineralGlass-Fiber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	(24 hr); ASTM D570
Moisture Absorption at Equilibrium	0.24 %	0.24 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112.4 MPa	16300 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	166.2 MPa	24110 psi	ASTM D790
Flexural Modulus	9.17 GPa	1330 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.5 µm/m-°C @Temperature 20.0 °C	10.3 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	212 °C	414 °F	ASTM D648
Vicat Softening Point	>= 225 °C	>= 437 °F	ASTM D1525
Flammability, UL94	HB	HB	0.125 in; Albis Internal Test

Electrical Properties	Metric	English	Comments
Dielectric Strength	25.2 kV/mm	640 kV/in	ASTM D149

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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