

## Covestro Petlon® 4835 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:** Flame Retardant: Good Processability, Low Warpage, High Rigidity  
**Applications:** Appliance, Telecommunication and Electrical 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 Material Science 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-4835-Semi-Crystalline-PET-35-MineralGlass-Fiber-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Covestro-Petlon-4835-Semi-Crystalline-PET-35-MineralGlass-Fiber-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.030 %	0.030 %	(24 hr); ASTM D570
Moisture Absorption at Equilibrium	0.11 %	0.11 %	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	111.7 MPa	16200 psi	ASTM D638
Flexural Yield Strength	171 MPa	24800 psi	ASTM D790
Flexural Modulus	10.62 GPa	1540 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.5 μm/m-°C	10.3 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	228 °C	442 °F	ASTM D648
Vicat Softening Point	>= 225 °C	>= 437 °F	ASTM D1525
Flammability, UL94	V-0	V-0	0.125 in; Albis Internal Test

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	17.0 kV/mm Metric	432 kV/in English	ASTM D149 Comments
Arc Resistance	75 sec	75 sec	ASTM D495

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

## 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