

Covestro Petlon® DP3-1042 Semi-Crystalline PET, 40% Mineral/Glass Fiber (discontinued **)

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

Material Notes:

Characteristics: General Purpose: Good Strength and Dimensional Stability, Low Warpage**Applications:** Automotive Valve Covers, Pump Components and Pulleys**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-DP3-1042-Semi-Crystalline-PET-40-MineralGlass-Fiber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	(24 hr); ASTM D570
Moisture Absorption at Equilibrium	0.21 %	0.21 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	129.6 MPa	18800 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	202 MPa	29300 psi	ASTM D790
Flexural Modulus	12.2 GPa	1770 ksi	ASTM D790
Izod Impact, Notched	0.660 J/cm	1.24 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648
Flammability, UL94	HB	HB	0.032 in; Albis Internal test

Processing Properties	Metric	English	Comments
Melt Temperature	257 - 277 °C	495 - 531 °F	Injection

Mold Temperature	91.0 - 121 °C	196 - 250 °F	
Processing Properties	Metric	English	Comments

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