

Westlake Plastics Propylux® Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Propylux is made from polypropylene resin. Among its most notable characteristics are its mechanical toughness, chemical resistance and resistance to abrasion. These properties make it suitable for various applications. Propylux Natural, Void Free, and 944 are FDA compliant. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Propylux-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ASTM D792
Water Absorption	<= 0.10 %	<= 0.10 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.9 MPa	5200 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Tensile Modulus	1.65 GPa	240 ksi	ASTM D638
Flexural Modulus	0.827 GPa	120 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	146 µm/m-°C @Temperature 20.0 °C	81.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Melting Point	166 °C	330 °F	ASTM D4591
Maximum Service Temperature, Air	82.2 °C	180 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	54.4 °C	130 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.3 @Frequency 1000 Hz	2.3 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	23.6 kV/mm	600 kV/in	ASTM D149

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