

Westlake Plastics Imidex Thermoplastic Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

Made from Aurum® resin. Applications include electronics, acoustics, composites, wire/cable insulation, adhesive film, and washers/gaskets. It will not melt unto itself, is thermoformable, has high heat resistance, tensile strength, and tear strength, has excellent resistance to oil, many chemicals, sunlight, and radiation, and is fairly transparent. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Imidex-Thermoplastic-Polyimide.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	1.0 %	1.0 %	ASTM D570; 24 hrs.; 50°C; 75% RH
Moisture Vapor Transmission	3.02 cc-mm/m ² -24hr-atm	7.67 cc-mil/100 in ² -24hr-atm	ASTM E96; based on 1.4 mil
Oxygen Transmission	2.74 cc-mm/m ² -24hr-atm	6.96 cc-mil/100 in ² -24hr-atm	ASTM D3938; based on 0.8 mil

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	118 MPa	17100 psi	ASTM D882
Elongation at Break	110 %	110 %	ASTM D882
Tensile Modulus	3.0529 GPa	442.78 ksi	ASTM D882
Flexural Modulus	3.78 GPa	548 ksi	ASTM D790
Tensile Impact	50.2 J/cm	94.0 ft-lb/in	ASTM D1822
Tear Strength Test	2.8	2.8	lbs. Propagation
	50.4	50.4	lbs. Initiation

Thermal Properties	Metric	English	Comments
CTE, linear	55.1 µm/m-°C	30.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.180 W/m-K	1.25 BTU-in/hr-ft ² -°F	
Melting Point	388 °C	730 °F	
Maximum Service Temperature, Air	230 °C	446 °F	Continuous Use
Flammability, UL94	V-0	V-0	VTM-0; 1 mil

Optical Properties	Metric	English	Comments
Haze	0.10 %	0.10 %	ASTM D1003
Transmission, Visible	64 %	64 %	ASTM D1003; 1.4 mil

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5	2.5	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	248 kV/mm	6290 kV/in	ASTM D149; at 1 mil
Dissipation Factor	0.0014	0.0014	ASTM D150

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