

Quadrant EPP Duratron® PEI U2300 Extruded 30% Glass Reinforced Polyetherimide (ASTM Product Data Sheet)

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 30% Glass Fiber

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-Duratron-PEI-U2300-Extruded-30-Glass-Reinforced-Polyetherimide-ASTM-Product-Data-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Water Absorption	0.18 %	0.18 %	Immersion, 24hr; ASTM D570(2)
Water Absorption at Saturation	0.90 %	0.90 %	Immersion; ASTM D570(2)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114	114	ASTM D785
Hardness, Rockwell R	127	127	ASTM D785
Hardness, Shore D	86	86	ASTM D2240
Tensile Strength	117 MPa	17000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	5.52 GPa	800 ksi	ASTM D638
Flexural Strength	186 MPa	27000 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Compressive Strength	221 MPa	32000 psi	10% Def.; ASTM D695
Compressive Modulus	4.31 GPa	625 ksi	ASTM D695
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256 Type A

Thermal Properties	Metric	English	Comments
CTE, linear	19.8 $\mu\text{m}/\text{m}\cdot\text{°C}$	11.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E831
	@Temperature -40.0 - 149 °C	@Temperature -40.0 - 300 °F	
Thermal Conductivity	0.225 W/m-K	1.56 BTU-in/hr-ft ² -°F	ASTM F433
Maximum Service Temperature, Air	171 °C	340 °F	Long Term

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	210 °C Metric	410 °F English	ASTM D3418 Comments
Glass Transition Temp, Tg	210 °C	410 °F	ASTM D3418
Flammability, UL94	V-0	V-0	1/8 inch (Estimated Rating)

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	EOS/ESD S11.11
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	30.3 kV/mm	770 kV/in	Short Term; ASTM D149
Dissipation Factor	0.0015 @Frequency 1e+6 Hz	0.0015 @Frequency 1e+6 Hz	ASTM D150

Compliance Properties	Metric	English	Comments
3A-Dairy	No	No	
Canada AG	No	No	
FDA	No	No	
NSF	No	No	
USDA	No	No	
USP Class VI	No	No	

Chemical Resistance Properties	Metric	English	Comments
Acids, Strong (pH 1-3)	Unacceptable	Unacceptable	
Acids, Weak	Acceptable	Acceptable	
Alcohols	Acceptable	Acceptable	
Alkalies, Strong (pH 11-14)	Unacceptable	Unacceptable	
Alkalies, Weak	Acceptable	Acceptable	
Chlorinated Solvents	Unacceptable	Unacceptable	
Conductive / Static Dissipative	No	No	
Continuous Sunlight	Acceptable	Acceptable	
Hot Water / Steam	Acceptable	Acceptable	

Chemical Resistance Properties	Metric	English	Comments
Hydrocarbons - Aromatic	Unacceptable	Unacceptable	
Inorganic Salt Solutions	Acceptable	Acceptable	
Ketones, Esters	Unacceptable	Unacceptable	

Descriptive Properties	Value	Comments
Machinability	7	1-10, 1=Easier to Machine

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