

Proto3000 ULTEM* 9085 Fused Deposition Modeling Polymer

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Description: ULTEM* 9085 is a flame retardant high performance thermoplastic for direct digital manufacturing and rapid prototyping. It is ideal for the transportation industry due to its high strength-to-weight ratio and its V0 rating for FST (flame, smoke, and toxicity). This unique material's preexisting certifications make it an excellent choice for the commercial transportation industry – especially aerospace, marine and ground vehicles. Combined with a Fortus 3D Production System, ULTEM 9085 allows design and manufacturing engineers to produce fully functional parts that are ideal for advanced functional prototypes or end use without the cost or lead time of traditional tooling. Available Colors: Tan Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-ULTEM-9085-Fused-Deposition-Modeling-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.64 MPa	10390 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	5.9 %	5.9 %	ASTM D790
Tensile Modulus	2.22 GPa	322 ksi	ASTM D638
Flexural Strength	115.1 MPa	16690 psi	Method 1, 0.05"/min; ASTM D790
Flexural Modulus	2.507 GPa	363.6 ksi	ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	Method A; ASTM D256
Izod Impact, Unnotched	6.138 J/cm	11.50 ft-lb/in	Method A; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	153 °C	307 °F	ASTM D648
Glass Transition Temp, Tg	186 °C	367 °F	DAM (SSYS)
Oxygen Index	49 %	49 %	ASTM D2863

Descriptive Properties	Value	Comments
FAA Flammability	<5	FAR 25.853
OSU Peak Heat Release	36 kW/m ²	FAR 25.853
OSU Total Heat Release	66 kW.min/m ²	FAR 25.853

Descriptive Properties	Value	Comments
Vertical Burn	2 seconds	Test at (100%), passes at, FAR 25.853

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