

Stratasys® Ultem 9085 for Rapid Prototyping

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

Material Notes:

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 V-0 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. Information provided by Stratasys.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stratasys-Ultem-9085-for-Rapid-Prototyping.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	71.64 MPa	10390 psi	
Elongation at Yield	5.9 %	5.9 %	
Tensile Modulus	2.22 GPa	322 ksi	
Flexural Yield Strength	115 MPa	16700 psi	
Flexural Modulus	2.500 GPa	362.6 ksi	
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	
Izod Impact, Unnotched	6.14 J/cm	11.5 ft-lb/in	

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

Descriptive Properties	Value	Comments
FAA Flammability	<5	FAR 25.853, method A/B
OSU Peak Heat Release	36 kW/m ²	FAR25.853, 5 min test
OSU Total Heat Release	16 kW-min/m ²	FAR25.853, 2 min test

Descriptive Properties	Value	Comments
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