



ADVANCED POLYMER TECHNOLOGIES

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Ultem® 2300R Resin

PROPERTY	NOMINAL VALUES	TEST METHOD
Physical		
Specific Gravity	1.51	ASTM D792
Water Absorption (24 hours)	0.16 %	ASTM D570
Water Absorption, equilibrium (23°C)	0.9 %	ASTM D570
Mechanical		
Tensile Stress at Yield (Type I, 5 mm/min)	168 MPa	ASTM D638
Tensile Stress at Break (Type I, 5 mm/min)	158 MPa	ASTM D638
Tensile Strain at Break (Type I, 5 mm/min)	3 %	ASTM D638
Tensile Modulus (5 mm/min)	9300 MPa	ASTM D638
Flexural Stress at Break (2.6 mm/min, 100 mm span)	227 MPa	ASTM D790
Flexural Modulus (2.6 mm/min, 100 mm span)	8960 MPa	ASTM D790
Hardness, Rockwell M	114	ASTM D785
Thermal		
Vicat Softening Temp, Rate B/50	227 °C	ASTM D1525
HDT, Unannealed (0.45 MPa, 6.4mm)	212 °C	ASTM D648
HDT, Unannealed (1.82 MPa, 6.4 mm)	210 °C	ASTM D648
Relative Temp Index, Elec	180 °C	UL 746B
Relative Temp Index, Mech w/impact	170 °C	UL 746B
Relative Temp Index, Mech w/o impact	180 °C	UL 746B
Impact		
Unnotched Izod Impact (23°C)	427 J/m	ASTM D4812
Notched Izod Impact (23°C)	85 J/m	ASTM D256
Electrical		
Volume Resistivity	3.E+16 Ohm-cm	ASTM D257
Dielectric Strength, in air (1.6 mm)	24.8 kV/mm	ASTM D149
Dielectric Strength, in oil (1.6 mm)	30.3 kV/mm	ASTM D149
Relative Permittivity (1 kHz)	3.7	ASTM D150
Dissipation Factor (1 kHz)	0.0015	ASTM D150
Dissipation Factor (2450 MHz)	0.0053	ASTM D150
Flame Characteristics		
UL Recognized, 94V-0 Flame Class Rating	0.25 mm	UL 94
UL Recognized, 94-5VA Rating	1.21 mm	UL 94

*Ultem Resin 2300R is a trademark of the General Electric Company

**Flammability ratings are not intended to reflect hazards under actual fire conditions.

***Typical values only. Actual properties of individual batches will vary within specification limits.