

SABIC Innovative Plastics ULTEM AUR200G6 PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

The data listed in this data sheet are the lower specification limits, apart from the MFR, CTE, HDT at 1.8 MPa, Density, Tensile strain, Water Absorption, Thermal Conductivity and Shrinkage which are typical data. The MVR of this material at 337 degrees C/6.7 kgf will have a specification between 3 and 7.5 (MFR: 4.2-10.5)

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-AUR200G6-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.90 %	0.90 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	on Tensile Bar; SABIC Method
Melt Flow	7.5 g/10 min @Load 6.60 kg, Temperature 337 ^o C	7.5 g/10 min @Load 14.6 lb, Temperature 639 ^o F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	8.00 GPa	1160 ksi	1 mm/min; ISO 527
Flexural Yield Strength	180 MPa	26100 psi	2 mm/min; ISO 178
Flexural Modulus	6.50 GPa	943 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 ^o μm/m- ^o C @Temperature 23.0 - 150 ^o C	13.9 ^o μin/in- ^o F @Temperature 73.4 - 302 ^o F	ISO 11359-2
CTE, linear, Transverse to Flow	60.0 ^o μm/m- ^o C @Temperature 23.0 - 150 ^o C	33.3 ^o μin/in- ^o F @Temperature 73.4 - 302 ^o F	ISO 11359-2
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² - ^o F	ISO 8302

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C	401 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae

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