

ULTEM™ 6202 resin

Polyether Imide

SABIC Innovative Plastics

Message:

12% Silica filled, standard flow Polyetherimide Copolymer (Tg 235C). ECO Conforming, UL94 VO Listing.

General Information			
Filler / Reinforcement	Silicone filler, 12% filler by weight		
Features	Comply with ECO		
	Copolymer		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (360°C/5.0 kg)	8.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.50 - 0.70	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	160	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	90.0	MPa	ISO 527-2/5
Fracture	90.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	5.0	%	ISO 527-2/5
Fracture	7.0	%	ISO 527-2/5
Flexural Modulus ²	3800	MPa	ISO 178
Flexural Stress	150	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	35.0	mg	Internal method
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³			ISO 179/1eU
-30°C	25	kJ/m ²	ISO 179/1eU
23°C	50	kJ/m ²	ISO 179/1eU
Unnotched Izod Impact Strength ⁴			ISO 180/1U
-30°C	45	kJ/m ²	ISO 180/1U
23°C	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 100 mm span	215	°C	ISO 75-2/Be

1.8 MPa, unannealed, 100 mm span	202	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	222	°C	ISO 306/B50
--	225	°C	ISO 306/B120
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	4.5E-5	cm/cm/°C	ISO 11359-2
Flow: 23 to 150°C	4.5E-5	cm/cm/°C	ISO 11359-2
Horizontal: 23 to 150°C	4.5E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.28	W/m/K	ISO 8302
RTI Elec	105	°C	UL 746
RTI Imp	105	°C	UL 746
RTI	105	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength			IEC 60243-1
1.60mm, in oil	21	kV/mm	IEC 60243-1
3.20mm, in oil	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.90		IEC 60250
60 Hz	2.90		IEC 60250
1 MHz	2.80		IEC 60250
Dissipation Factor			IEC 60250
50 Hz	4.0E-3		IEC 60250
60 Hz	4.0E-3		IEC 60250
1 MHz	3.0E-3		IEC 60250
Comparative Tracking Index	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	48	%	ISO 4589-2
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4 sp=62mm		
4.	80*10*4		
5.	120*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

