

ULTEM™ 3452 resin

Polyether Imide

SABIC Innovative Plastics

Message:

45% Glass fiber and mineral filled, enhanced flow Polyetherimide (Tg 217C) with enhanced dimensional stability. Resin is RoHS compliant. UL94 V0 and 5VA listing in recognized colors.

General Information			
Filler / Reinforcement	Glass \mineral, 45% filler by weight		
Features	Good dimensional stability		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.66	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	0.25	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12500	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2/50
Tensile Strain (Break)	1.5	%	ISO 527-2/50
Flexural Modulus ²	12000	MPa	ISO 178
Flexural Stress	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	4.4	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	14	kJ/m ²	ISO 179/1eU
23°C	14	kJ/m ²	ISO 179/1eU
Notched Izod Impact ⁵			ISO 180/1A
-30°C	4.9	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-30°C	13	kJ/m ²	ISO 180/1U
23°C	14	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, unannealed, 100 mm span	207	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	200	°C	ISO 75-2/Ae
Vicat Softening Temperature	205	°C	ISO 306/B50, ISO 306/B120

Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	1.9E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	3.6E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·cm	IEC 60093
Dielectric Strength (3.20 mm, in Oil)	16	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.70		IEC 60250
60 Hz	3.70		IEC 60250
1 MHz	3.60		IEC 60250
Dissipation Factor			IEC 60250
50 Hz	0.010		IEC 60250
60 Hz	0.010		IEC 60250
1 MHz	0.015		IEC 60250
Comparative Tracking Index	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.770 mm	V-0		UL 94
3.00 mm	5VA		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	80.0 - 120	°C	
Rear Temperature	350 - 400	°C	
Middle Temperature	360 - 410	°C	
Front Temperature	370 - 420	°C	
Nozzle Temperature	360 - 410	°C	
Processing (Melt) Temp	370 - 410	°C	
Mold Temperature	140 - 180	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4 sp=62mm		
4.	80*10*4 sp=62mm		
5.	80*10*4		
6.	80*10*4		
7.	120*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT