

ULTEM™ 2212R resin

Polyether Imide

SABIC Innovative Plastics

Message:

20% Milled glass filled, enhanced flow Polyetherimide (Tg 217C) with internal mold release. Resin is RoHS compliant. UL94 V0 and 5VA listing.

General Information			
Filler / Reinforcement	Glass fiber with embossing, 20% filler by weight		
Additive	demoulding		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.30 - 0.50	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/5
Tensile Strain (Break)	8.0	%	ISO 527-2/5
Flexural Stress	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact Strength ² (23°C)	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, unannealed, 100 mm span	202	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	189	°C	ISO 75-2/Ae
Vicat Softening Temperature	211	°C	ISO 306/B120
Thermal Conductivity	0.28	W/m/K	ISO 8302
RTI Elec	170	°C	UL 746
RTI Imp	170	°C	UL 746
RTI	170	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating (0.410 mm)	V-0	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 - 100	°C	
Rear Temperature	340 - 380	°C	
Middle Temperature	360 - 400	°C	
Front Temperature	370 - 410	°C	

Nozzle Temperature	360 - 400	°C
Processing (Melt) Temp	360 - 400	°C
Mold Temperature	140 - 180	°C

NOTE		
1.	Tensile Bar	
2.	80*10*4	
3.	120*10*4 mm	

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