

ULTEM™ 2212EPR resin

Polyether Imide

SABIC Innovative Plastics

Message:

20% Milled glass filled, high flow Polyetherimide (Tg 217C) with internal mold release and enhanced electroplatability. ECO Conforming, UL94 V0 and 5VA listing.

General Information			
Filler / Reinforcement	Glass fiber with embossing, 20% filler by weight		
Additive	demoulding		
Features	Comply with ECO		
	Electroplateable		
	High liquidity		
Agency Ratings	EU Eco		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 3.20mm	0.50 - 0.70	%	Internal method
Transverse flow: 3.20mm	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	5790	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	108	MPa	ASTM D638
Fracture	108	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	3.0	%	ASTM D638
Fracture	3.0	%	ASTM D638
Flexural Modulus			ASTM D790
100mm span ⁴	5100	MPa	ASTM D790
50.0mm span ⁵	5520	MPa	ASTM D790
Flexural Strength			ASTM D790
Yield, 50.0mm span ⁶	172	MPa	ASTM D790
Fracture, 100mm span ⁷	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Unnotched Izod Impact (23°C)	480	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	12.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	210	°C	ASTM D648
0.45 MPa, unannealed, 6.40mm	213	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	205	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	207	°C	ASTM D648
Vicat Softening Temperature	210	°C	ASTM D1525 ⁸
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	7.2E-5	cm/cm/°C	ASTM E831
RTI Elec	105	°C	UL 746
RTI Imp	105	°C	UL 746
RTI	105	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance ⁹	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 4		UL 746
High Amp Arc Ignition (HAI)	PLC 4		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 4		UL 746
Hot-wire Ignition (HWI)	PLC 1		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (0.406 mm)	V-0		UL 94
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	2.6 mm/min		
5.	1.3 mm/min		
6.	1.3 mm/min		
7.	2.6 mm/min		
8.	标准 B (120°C/h), 载荷2 (50N)		
9.	Tungsten electrode		

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