ULTEM™ 2110EPR resin

Polyether Imide

SABIC Innovative Plastics

Message:

10% Glass fiber filled, high flow Polyetherimide (Tg 217C) with internal mold release and enhanced electroplatability. ECO Conforming, UL94 V0 and 5VA listing.

General Information			
UL YellowCard	E207780-100646554		
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	demoulding		
Features	Comply with ECO Electroplateable High liquidity		
Agency Ratings	EU Eco		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.35	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 3.20mm	0.70 - 0.90	%	Internal method
Transverse flow: 3.20mm	0.60 - 0.80	%	Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	5240	MPa	ASTM D638
Tensile Strength [2]			ASTM D638
Yield	119	MPa	ASTM D638
Fracture	119	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]	5170	MPa	ASTM D790
50.0mm span [5]	490	MPa	ASTM D790
Flexural Strength			ASTM D790
Yield, 50.0mm span [6]	200	MPa	ASTM D790
Fracture, 100mm span [7]	193	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Unnotched Izod Impact (23°C)	530	J/m	ASTM D4812
Reverse Notch Izod Impact (3.20 mm)	350	J/m	ASTM D256

Instrumented Dart Impact (23°C, Total Energy)	10.8	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	8.1E-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 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 4		UL 746
High Amp Arc Ignition (HAI)	PLC 3		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		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		

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