EPOXIDUR® EP 3582

Epoxy; Epoxide

RASCHIG GmbH

Message:

Glass-fibre reinforced and inorganically filled epoxy moulding compound
Good mechanical strength, very good electrical isolation properties and dimensional stability even at high temperatures
Moulding compound with a broad spectrum of applications
This product meets the allowed upper limits for heavy metals and PCAs and also conforms to the requirements of the EU directives 2002/95 (RoHS), 2002/96 (WEEE) and 2006/122 (PFOS)

General Information	
Filler / Reinforcement	Glass\Inorganic
Features	Good Dimensional Stability Good Electrical Properties Good Strength
Agency Ratings	EU 2002/96/EC (WEEE) EU 2006/122/EC
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Granules
Processing Method	Compression Molding Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.90 to 2.00	g/cm³	ISO 1183
Apparent Density	0.70 to 1.00	g/cm³	ISO 60
Molding Shrinkage - Flow	0.30 to 0.50	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62
Post Shrinkage [1]	< 0.050	%	ISO 2577
Compression Molding Molding Pressure	> 5.00	MPa	
Compression Molding Temperature	150 to 190	°C	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	15000 to 18000	MPa	ISO 527-2
Tensile Stress	60.0 to 80.0	MPa	ISO 527-2
Flexural Modulus	20000 to 23000	MPa	ISO 178
Flexural Stress	180 to 210	MPa	ISO 178
Compressive Stress	200 to 250	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	4.0 to 7.0	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength	12 to 16	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, Unannealed	> 200	°C	ISO 75-2/A
8.0 MPa, Unannealed	180 to 200	°C	ISO 75-2/C
CLTE - Flow (50 to 150°C)	1.5E-5 to 2.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.40 to 0.60	W/m/K	ASTM E1461
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14 to 1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15 to 1.0E+16	ohms·cm	IEC 60093
Electric Strength	20 to 30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
	6.00		
100 Hz	4.00		
	6.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	0.010 to 0.020		
1 MHz	0.020 to 0.040		
Arc Resistance	PLC 4		ASTM D495
Comparative Tracking Index	> 250	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index	900	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	900	°C	IEC 60695-2-13
Injection	**Nominal Value**	**Unit**	
Middle Temperature	50.0 to 70.0	°C	
Front Temperature	70.0 to 90.0	°C	
Processing (Melt) Temp	90.0 to 105	°C	
Mold Temperature	150 to 190	°C	
Back Pressure	0.500 to 1.50	MPa	
Screw Speed	40 to 80	rpm	
NOTE			
1.	168 h / 110°C		

Recommended distributors for this material

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