

Keripol RW 1411

Thermoset Polyester

Hexion Inc.

Message:

Product Description

Polyester moulding compound, inorganically filled, glass fibre reinforced, styrene free, tracking resistance 600 V, good heat resistance, high viscosity flow characteristics

Application Areas

H4 lampholders

General Information			
Filler / Reinforcement	Glass Fiber		
	Inorganic		
Features	Good Dimensional Stability		
	High Heat Resistance		
	High Viscosity		
	Low Shrinkage		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	2.10	g/cm ³	ISO 1183
Apparent Density	1.00	g/cm ³	ISO 60
Molding Shrinkage ¹	0.10	%	ISO 2577
Water Absorption - 24h/23C	15.0	mg	ISO 62
Post Shrinkage ²	-0.030	%	ISO 2577
Compression Molding Molding Pressure	> 10.0	MPa	
Compression Molding Temperature	160 to 180	°C	
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	16500	MPa	ISO 178
Flexural Stress ³	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (8.0 MPa, Unannealed)	160	°C	ISO 75-2/C
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093

Electric Strength ⁴ (1.00 mm)	30	kV/mm	IEC 60243-1
Relative Permittivity (100 Hz)	6.00		IEC 60250
Dissipation Factor (100 Hz)	8.0E-3		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112

Injection	Nominal Value	Unit
Rear Temperature	60.0 to 70.0	°C
Nozzle Temperature	70.0 to 100	°C
Processing (Melt) Temp	70.0 to 100	°C
Mold Temperature	160 to 180	°C
Injection Pressure	> 10.0	MPa
Back Pressure	0.500 to 1.00	MPa

NOTE	
1.	Compression
2.	Compression
3.	2.0 mm/min
4.	short term, electrode layout P25mm/P25mm in transformer oil equivalent to IEC 60296

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