

Resinoid 1371

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 1371 is a glass reinforced, two-step phenolic molding compound offering good mechanical and electrical properties. This product has been specifically formulated for applications requiring prolonged exposure to elevated temperatures and resistance to thermal shocks. This material comes in pelletized form and is suitable for injection, transfer or compression molding. It can be preformed on automatic equipment.

General Information			
UL YellowCard	E61847-247056		
Filler / Reinforcement	Glass fiber reinforced material		
Features	High strength		
	Good electrical performance		
	Heat resistance, high		
Appearance	Black		
Forms	Particle		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm ³	ASTM D792A, ISO 1183
Water Absorption			
24 hr	0.15	%	ASTM D570
23°C, 24 hr	0.15	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	52.2	MPa	ASTM D638
Yield	52.0	MPa	ISO 527-2
Flexural Modulus			
--	15900	MPa	ASTM D790
--	16000	MPa	ISO 178
Flexural Strength			
--	89.6	MPa	ASTM D790
--	90.0	MPa	ISO 178
Compressive Strength			
--	186	MPa	ASTM D695
--	184	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

--	59	J/m	ASTM D256A
--	5.8	kJ/m ²	ISO 180/2A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	332	°C	ASTM D648, ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			
--	9.8	kV/mm	ASTM D149
--	10	kV/mm	IEC 60243-1
Additional Information			

DTUL @264 psi - Unannealed, ASTM D648: >630°FHDT A (1.80 MPa) Unannealed, ISO 75A-1-2: >332°C

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