

Resinoid 1345

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 1345 is a glass reinforced, two-step phenolic molding compound. It was specifically developed for molded electric motor commutators where performance for prolonged periods at elevated temperatures while under centrifugal loads is critical. This material comes in pelletized form and is suitable for injection, transfer or compression molding.

General Information	
UL YellowCard	E61847-247052
Filler / Reinforcement	Glass fiber reinforced material
Features	High strength
	Heat resistance, high
Uses	Electrical components
Appearance	Black
Forms	Particle
Processing Method	Resin transfer molding
	Compression molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.00	g/cm ³	ASTM D792A, ISO 1183
Bulk Factor	2.5		ASTM D1895
Molding Shrinkage			
Flow	0.10	%	ASTM D955
Flow direction	0.10	%	ISO 294-4
Water Absorption			
24 hr	0.10	%	ASTM D570
23°C, 24 hr	0.10	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
E scale	90		ASTM D785
Class m	110		ASTM D785
M scale	110		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	58.6	MPa	ASTM D638
Yield	59.0	MPa	ISO 527-2
Flexural Modulus			
--	15200	MPa	ASTM D790

--	15000	MPa	ISO 178
Flexural Strength			
--	82.7	MPa	ASTM D790
--	83.0	MPa	ISO 178
Compressive Strength	186	MPa	ASTM D695, ISO 604
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
--	69	J/m	ASTM D256A
--	6.8	kJ/m ²	ISO 180/2A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	300	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM D696, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	12	kV/mm	ASTM D149, IEC 60243-1
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			

Bulk Factor, ISO 171: 2 to 3 Bulk Factor, ASTM D955: 2 to 3

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