

Resinoid 1328

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 1328 is a glass reinforced, two-step phenolic molding compound. It was specifically developed for applications requiring exceptional tensile strength such as grinding wheels. Resinoid 1328 exhibits excellent electrical and thermal properties as well as dimensional stability. This material comes in pelletized from and is suitable for injection, transfer or compression molding. It can be preformed on automatic equipment.

General Information			
UL YellowCard	E61847-247052		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	High strength		
	Good electrical performance		
Uses	Wheels		
Appearance	Black		
Forms	Particle		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.96	g/cm ³	ASTM D792A, ISO 1183
Molding Shrinkage			
Flow	0.20	%	ASTM D955
Flow direction	0.20	%	ISO 294-4
Water Absorption			
24 hr	0.12	%	ASTM D570
23°C, 24 hr	0.12	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
E scale	90		ASTM D785
Class m	112		ASTM D785
M scale	112		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	34.9	MPa	ASTM D638
Yield	34.8	MPa	ISO 527-2
Flexural Modulus			
--	15200	MPa	ASTM D790

--	15000	MPa	ISO 178
Flexural Strength			
--	88.3	MPa	ASTM D790
--	88.0	MPa	ISO 178
Compressive Strength	166	MPa	ASTM D695, ISO 604
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
--	57	J/m	ASTM D256A
--	5.6	kJ/m ²	ISO 180/2A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	316	°C	ASTM D648
1.8 MPa, not annealed	315	°C	ISO 75-2/A
CLTE - Flow			
--	2.6E-5	cm/cm/°C	ASTM D696
--	3.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	13	kV/mm	ASTM D149, IEC 60243-1
Arc Resistance	204	sec	ASTM D495
Additional Information			

DTUL @264 psi - Unannealed, ASTM D648: >600°FHDT A (1.80 MPa) Unannealed, ISO 75A-1-2: >315°C

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