

Resinoid 2277

Phenolic
Resinoid Engineering Corporation

Message:

Resinoid 2277 is a chopped fabric reinforced, two-step phenolic molding compound. It was specifically developed for molding applications where a lightweight, high strength material with good impact strength is needed. This material comes in pelletized form and is suitable for transfer or compression molding and can be used in injection molding systems with deep flight screws. Resinoid 2277 meets the requirements of ASTM D-5948 CFI-20 (Formerly MIL M14/1 CFI-20).

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Impact Resistance		
	High Strength		
Agency Ratings	ASTM D 5948, Type CFI-20		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792A, ISO 1183
Molding Shrinkage			
Flow	0.20	%	ASTM D955
--	0.20	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.80	%	ASTM D570, ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	41.4	MPa	ASTM D638, ISO 527-2
Flexural Modulus	8960	MPa	ASTM D790, ISO 178
Flexural Strength	90.3	MPa	ASTM D790, ISO 178
Compressive Strength	153	MPa	ASTM D695, ISO 604

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
--	110	J/m	ASTM D256A
--	6.8	kJ/m ²	ISO 180/2A

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	13	kV/mm	ASTM D149, IEC 60243-1
Arc Resistance	125	sec	ASTM D495

Flammability	Nominal Value	Unit	Test Method
Flame Rating (6.35 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Processing (Melt) Temp	149 to 177	°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

