

Fire PRF2 1000 FM

Phenol Formaldehyde Resin
Indspec Chemical Corporation

Message:

Fire PRF2 1000 FM is a Phenol Formaldehyde Resin (PF) product filled with glass fiber. It is available in North America. Typical application: Construction Applications. Primary characteristic: flame retardant.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
Uses	Exhaust Duct Systems		
Appearance	Orange		
Forms	Pellets		
Hardness	Nominal Value		Test Method
	85		
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7580	MPa	ASTM D638
Tensile Strength (Yield)	110	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	1.0	%	
Break	2.2	%	
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength (Yield)	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	860	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	52	%	ASTM D2863
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 3.0		
Hardener	Mix Ratio by Weight: 34		

Mix Ratio by Weight: 46

Resin	Mix Ratio by Volume: 4.0		
Pot Life (23°C)	10 to 20	min	
Shelf Life (22°C)	26	wk	
Thermoset Mix Viscosity (23°C)	750	cP	ASTM D2393
Demold Time			
23°C	1400	min	
32°C	60 to 120	min	
52°C	30	min	

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