

InnoFR™ FX-8575

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

FX-8575 is a rigid polyurethane formulated hand casting methods. Excellent physical properties can be obtained with a mild post cure without the utilization of mercury, MOCA, or TDI. This material passes UL 94VO.

General Information			
Features	Flame Retardant		
	High Rigidity		
Appearance	Clear/Transparent		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.10	g/cm ³	
Cured	1.23	g/cm ³	
Base Resin	1.26	g/cm ³	
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1930	MPa	ASTM D790
Flexural Strength	101	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	50.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 72		
Hardener	Mix Ratio by Weight: 63		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time (66°C)	60	min	

Additional Information	Nominal Value	Unit	Test Method
Peak Exotherm - 200g mass	138	°C	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.060	Pa·s	
25°C ²	0.18	Pa·s	
25°C ³	0.88	Pa·s	
Curing Time ⁴	25	hr	
Gel Time	10 to 15	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	77 to 87		ASTM D2240
Tensile Modulus	2280	MPa	
Tensile Strength	77.2	MPa	ASTM D638
Tensile Elongation at Break	6.0	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		
4.	24 hours at 77°F + 1 hour at 150°F		

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