

InnoFR™ FX-8091

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

FX-8091 is a flexible polyurethane formulated for room temperature hand-batch systems. Excellent physical properties can be obtained without the utilization of mercury, MOCA, or TDI. FX-8091 meets the criteria to pass UL 94VO.

General Information			
Features	Flame Retardant		
	Good Flexibility		
Appearance	White		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.20	g/cm ³	
Cured	1.29	g/cm ³	
Base Resin	1.30	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 55		
Resin	Mix Ratio by Volume: 51		
Demold Time	120 to 240	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.32	Pa · s	
25°C ²	1.2	Pa · s	
25°C ³	1.2	Pa · s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	10 to 15	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	85 to 95		ASTM D2240
Tensile Strength	9.65	MPa	ASTM D638
Tensile Elongation at Break	130	%	ASTM D638

Tear Strength	28.0	kN/m	ASTM D624
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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