

InnoFR™ FX-8585

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

FX-8585 is a rigid polyurethane formulated for room temperature hand batch systems or vacuum assisted casting methods. Excellent physical properties can be obtained without the utilization of mercury, MOCA, or TDI. FX-8585 passes UL 94-VO. It also meets the standards to pass FAR 25.853.

General Information			
Features	Flame Retardant		
	High Heat Resistance		
	High Rigidity		
Agency Ratings	FAR 25.853		
Appearance	Tan		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.23	g/cm ³	
Hardener	1.23	g/cm ³	
Base Resin	1.26	g/cm ³	
Molding Shrinkage - Flow	0.20 to 1.0	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1830	MPa	ASTM D790
Flexural Strength	75.8	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)	130	°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: 67		
Hardener	Mix Ratio by Weight: 56		

Mix Ratio by Weight: 100

Resin	Mix Ratio by Volume: 100		
Demold Time	90 to 210	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.45	Pa·s	
25°C ²	1.4	Pa·s	
25°C ³	3.8	Pa·s	
Curing Time ⁴	40	hr	
Gel Time	5.5 to 8.5	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80 to 90		ASTM D2240
Tensile Strength	39.3	MPa	ASTM D638
Tensile Elongation at Break	6.0	%	ASTM D638
NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		
4.	24 hours at 77°F + 16 hours at 180°F		

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