

BJB Polyurethane F-90 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

F-90 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use for the production casting of highly wear-resistant parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, MDA or MOCA. F-90 A/B is relatively insensitive to typical environmental moisture and will make good void-free parts without the problems that some conventional urethane systems exhibit.

General Information			
Features	Good Abrasion Resistance		
	Good Colorability		
	Good Wear Resistance		
	High Impact Resistance		
Uses	Liners		
Appearance	Opaque		
	Tan		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.07	g/cm ³	ASTM D792
--	1.08	g/cm ³	
-- ²	1.09	g/cm ³	
Specific Volume	0.925	cm ³ /g	
Gel Time	8.0 to 9.0	min	
Work Time ³ (25°C)	6.0 to 7.0	min	
Molding Shrinkage - Flow	0.70	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85 to 95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22.8	MPa	ASTM D412
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D412
Tensile Elongation (Break)	440	%	ASTM D412
Tear Strength ⁴	52.5	kN/m	ASTM D624
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	4.99		ASTM D150
Dissipation Factor (1 MHz)	0.072		ASTM D150
Thermoset	Nominal Value	Unit	Test Method

Thermoset Components		
Part A	Mix Ratio by Weight: 50, Mix Ratio by Volume: 46	
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100	
Shelf Life (25°C)	26	wk
Thermoset Mix Viscosity	ASTM D2393	
25°C ⁵	930	cP
25°C ⁶	850	cP
25°C ⁷	550	cP
Demold Time (25°C)	60 to 120	min
Post Cure Time (74°C)	16	hr

NOTE		
1.	Part B	
2.	Part A	
3.	100g mass	
4.	Die C	
5.	Mixed, Brookfield	
6.	Part B, Brookfield	
7.	Part A, Brookfield	

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