

BJB Polyurethane WC-590 FR A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

WC-590 FR A/B is a two-part, clear, fire retardant 85 retardant 85 shore A polyurethane elastomer. It is recommended for use wherever a tough, flexible, permanently transparent elastomer is required. It can be easily tinted and will retain its color provided color stable colorants are used. WC-590 FR A/B does not contain MOCA, MDA or TDI. In addition to being an excellent castable product, it may also be used as an adhesive for bonding various plastic substrates. WC-590 FR A/B will meet the FAR 25.853 flammability test.

General Information			
Features	Flame Retardant		
	Good Colorability		
	Good Flexibility		
	Good Toughness		
	Good Weather Resistance		
Uses	Adhesives		
	Bonding		
Agency Ratings	FAR 25.853		
Appearance	Clear/Transparent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.0170	g/cm ³	ASTM D792
Specific Gravity			
Part A	1.037	g/cm ³	
Part B	1.077	g/cm ³	
Demold Time (25°C, 6.35 mm)	6.0	hr	
Gel Time	25.0	min	
Work Time (25°C) ¹	20.0	min	
Brookfield Viscosity - Mixed (25°C)	1.06	Pa · s	
Cure Time (60 to 71°C) ²	3.0 to 5.0	day	
Molding Shrinkage - Flow	0.30	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80 to 90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13.2	MPa	ASTM D412
Tensile Elongation (Break)	180	%	ASTM D412
Tear Strength	36.8	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	
Thermoset Components			

Part A	Mix Ratio by Weight: 90, Mix Ratio by Volume: 91	
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100	
Shelf Life	26	wk
NOTE		
1.	100g	
2.	May be post cured at 140 to 160°F for 6-8 hrs to accelerate cure. Cure will be inhibited if cast against a tin catalyzed silicone RTV.	

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