

BJB Polyurethane TC-690 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-690 A/B is a two-component polyurethane elastomer compound. This product is a safe, easy-to-handle, room temperature mixing and curing system that contains no TDI, MDI, MDA or MOCA. The low shrinkage, superior toughness, and excellent detail reproduction of TC-690 A/B makes this system ideal for general-purpose castings and quality tooling operations. TC-690 A/B contains UV ray stabilizers to provide added protection when used in outdoor applications.

General Information			
Additive	UV Stabilizer		
Features	General Purpose		
	Good UV Resistance		
	Low Shrinkage		
	Ultra High Toughness		
Uses	Outdoor Applications		
Appearance	Yellow		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.07	g/cm ³	
-- ²	1.09	g/cm ³	ASTM D792
Specific Volume	0.936	cm ³ /g	
Gel Time	17.0 to 20.0	min	
Work Time (25°C) ³	12.0 to 15.0	min	
Brookfield Viscosity			
Mixed : 25°C	2.45	Pa · s	
Part A : 25°C	6.30	Pa · s	
Part B : 25°C	0.0900	Pa · s	
Molding Shrinkage - Flow	0.20	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85 to 95		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	6.14	MPa	
200% Strain	8.03	MPa	
300% Strain	9.86	MPa	
Tensile Strength (Yield)	13.3	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412

Tear Strength	49.0	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 45, Mix Ratio by Volume: 45		
Shelf Life (25°C)	26	wk	
Demold Time (25°C)	240 to 360	min	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part A		
2.	Part B		
3.	100 g mass		

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