

BJB Polyurethane ST-3080 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

ST-3080 is a high performance elastomer system that can perform many functions. Product characteristics are:
Cures at room temperature to produce a strong, resilient elastomer
Easy to use
Does not contain MOCA, MDA, or MDI.
Exudate and volatile free
High tensile and tear strength

General Information			
Features	Good Tear Strength		
	High Tensile Strength		
	Non-Exuding		
	Resilient		
Uses	Electrical/Electronic Applications		
	Liners		
	Molds/Dies/Tools		
	Shock Absorbing Pads		
Appearance	Clear/Transparent		
	Yellow		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Specific Gravity			
Part A : 25°C	1.107	g/cm ³	
Part B : 25°C	1.087	g/cm ³	
Gel Time	20.0	min	
Work Time (25°C) ¹	15.0	min	
Brookfield Viscosity			
Mixed : 25°C	3.00	Pa · s	
Part A : 25°C	3.10	Pa · s	
Part B : 25°C	0.450	Pa · s	
Molding Shrinkage - Flow	0.20	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75 to 85		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412

100% Strain	3.86	MPa	
200% Strain	5.27	MPa	
300% Strain	6.34	MPa	
Tensile Strength (Yield)	18.6	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength	53.4	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: 50, Mix Ratio by Volume: 50		
Shelf Life (25°C)	17	wk	
Demold Time (25°C)	180 to 240	min	
Post Cure Time (71°C)	16	hr	
NOTE			
1.	100 g		

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