

# Machine Cast MC-145 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

## Message:

MC-145 A/B is a two-component urethane casting compound that can be used with meter-mix-dispense equipment. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, MDA, or MOCA. MC-145 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. Because of this product's exceptional toughness and abrasion resistance, castings made with MC-145 A/B are particularly suitable for the mineral process and metal forming industries.

### Product Uses:

Abrasion-resistant parts and linings

Bumpers and rub rails

Paper feed rollers

Potting and encapsulation applications

Semi-flexible molds

Metal forming die facings

Holding fixtures

Machinery base pads

Applications requiring high abrasion and impact resistance casting

General Information			
Features	Good Abrasion Resistance		
	Good Impact Resistance		
	Good Tear Strength		
	Good Toughness		
Uses	Abrasion Resistant Liners		
	Molds/Dies/Tools		
	Rollers		
Appearance	Buff		
	Translucent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- <sup>1</sup>	1.07	g/cm <sup>3</sup>	ASTM D792
--	1.08	g/cm <sup>3</sup>	
-- <sup>2</sup>	1.10	g/cm <sup>3</sup>	
Shrinkage	0.60	%	ASTM D2566
Gel Time	5.0	min	
Work Time <sup>3</sup> (25°C)	4.0	min	
Cure Time	3.0 to 5.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	43 to 47		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	82.7	MPa	ASTM D412
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D412
Tensile Elongation (Yield)	290	%	ASTM D412
Tear Strength	47.3	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 95, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C <sup>4</sup>	1650	cP	
25°C <sup>5</sup>	3800	cP	
25°C	2800	cP	
Demold Time (25°C)	30 to 60	min	
Post Cure Time (74°C)	16	hr	
NOTE			
1.	Part B		
2.	Part A		
3.	100g mass		
4.	Part B		
5.	Part A		

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