

Machine Cast MC-170 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

The MC-170 A/B system is a production oriented fast gel and fast de-mold system. It features a mix ratio and working time ideal for machine dispensing and rapid part mold cycling, for production applications.

General Information			
Features	Ultra-high impact resistance		
	Sprayable		
Uses	Mold/Mold/Tool		
Appearance	Translucent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage - Flow (12.7 mm)	0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	586	MPa	ASTM D638
Tensile Strength	23.9	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	416	MPa	ASTM D790
Flexural Strength	14.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	71.1	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Mix Viscosity (25°C)	740	cP	ASTM D2393
Demold Time (25°C)	30 - 60	min	
Post Cure Time (52°C)	2.0 - 4.0	hr	
Additional Information			

Mix Ratio by weight: 60/100Mix Ratio by volume: 50/100Work Time, 100 g, 77°F: 1.5 min

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