

BJB Polyurethane TC-818 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

TC-818 A/B is a very low viscosity, rapid setting, rigid urethane compound. This system will cure to a hard, tough, impact resistant casting. TC-818 A/B is non-sensitive to moisture and will readily bond to itself if stage pours are required. TC-818 A/B is recommended in applications where a "thermoplastic feel and look" is desired. Being a completely transparent system allows for unlimited color matching with no correcting for material base color, so vibrant or fluorescent colors can be easily attained. Features a non-mercury based catalyst system.

General Information			
Features	Low viscosity		
	Moisture resistance		
	Impact resistance, good		
	Good toughness		
	Medium hardness		
Appearance	Clear/transparent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	903	MPa	ASTM D638
Tensile Strength	26.4	MPa	ASTM D638
Tensile Elongation (Break)	11	%	ASTM D638
Flexural Modulus	1080	MPa	ASTM D790
Flexural Strength	41.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	65.6	°C	ASTM D648
1.8 MPa, not annealed	54.4	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Shelf Life	26	wk	
Thermoset Mix Viscosity (25°C)	350	cP	ASTM D2393
Demold Time (25°C)	30	min	
Post Cure Time (82°C)	16	hr	
Additional Information			

Shrinkage linear, 12" x 0.5" x 0.5": 0.01 in/inMix ratio by weight: 100/100Mix ratio by volume: 85/100Work time, 100 g, 77°F: 2 min

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