

BJB Polyurethane TC-872 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-872 A/B is a RoHS compliant, non-mercury based catalyst polyurethane system that produces a tough 70 shore D material. This system has an exceptionally high impact and a high heat deflection temperature which in some cases can be post cured without having to use fixtures.

General Information			
Features	Good Toughness		
	High Heat Resistance		
	High Impact Resistance		
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
	Yellow		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.06	g/cm ³	
--	1.13	g/cm ³	ASTM D792
-- ²	1.16	g/cm ³	
Specific Volume	0.921	cm ³ /g	
Color			
Part A	Colorless		
Part B	Amber		
Gel Time	13.0 to 15.0	min	
Work Time (25°C) ³	10.0 to 12.0	min	
Molding Shrinkage - Flow (12.7 mm)	0.40	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68 to 72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	492	MPa	ASTM D638
Tensile Strength (Yield)	22.8	MPa	ASTM D638
Tensile Elongation (Yield)	28	%	ASTM D638
Flexural Modulus	584	MPa	ASTM D790
Flexural Strength	22.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	95	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	116	°C	ASTM D648
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: 35, Mix Ratio by Volume: 32		
Shelf Life	26	wk	
Thermoset Mix Viscosity			ASTM D2393
25°C ⁴	750	cP	
25°C ⁵	650	cP	
25°C ⁶	830	cP	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part A		
2.	Part B		
3.	100g mass		
4.	Mixed, Brookfield		
5.	Part B, Brookfield		
6.	Part A, Brookfield		

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