

BJB Polyurethane TC-892 FR REV 1

Polyurethane

BJB Enterprises, Inc.

Message:

This tough 80 Shore D Flame Retardant material is UL Listed with a flammability rating at 1/16 inch (1.6 mm). It's great for hand casting or machine dispensing electronic enclosures, or any parts requiring flame retardant characteristics. The 20 to 25 minute work time exhibits very low shrinkage and exceptional physical properties. Also available in a variety of work times as TC-890, 891 and 894 FR REV 1.

RoHS Compliant

REACH Compliant

20-25 Minute Work Time

5-6 Hour Demold Time

UL 94V-0 Listed, flammability rating at 1/16" thickness (File#E174527)

General Information			
UL YellowCard	E174527-101116907		
Features	Flame Retardant		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
UL File Number	E174527		
Appearance	Opaque		
	White		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.18	g/cm ³	
--	1.30	g/cm ³	
-- ²	1.33	g/cm ³	
Specific Volume	0.791	cm ³ /g	
Shrinkage ³ (1.27 cm)	Nil		
Gel Time	30.0 to 35.0	min	
Work Time ⁴ (25°C)	20.0 to 25.0	min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78 to 82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength (Yield)	42.2	MPa	ASTM D638
Tensile Elongation (Yield)	21	%	ASTM D638
Flexural Modulus	1940	MPa	ASTM D790
Flexural Strength	69.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	31	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	85.6	°C	
1.8 MPa, Unannealed	75.6	°C	
Ball Pressure Test (75°C, 1.30 mm)	Pass		IEC 60695-10-2
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	3.24		ASTM D150
Dissipation Factor (1 MHz)	0.014		ASTM D150
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 70, Mix Ratio by Volume: 79		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity			ASTM D2393
25°C ⁵	740	cP	
25°C ⁶	1450	cP	
25°C ⁷	325	cP	
Demold Time (25°C)	300 to 360	min	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part A		
2.	Part B		
3.	12x0.5x0.5 in		
4.	100g mass		
5.	Mixed		
6.	Part B		
7.	Part A		

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