BJB Polyurethane TC-886 FR REV 1

Polyurethane

BJB Enterprises, Inc.

Message:

TC-886 A/B FR REV 1 produces a high impact rigid 78 Shore D material that is commonly used to make computer housings, models of all kinds, artwork, and can also be used for electronic component enclosures. It provides a working time of 15 minutes.
PRODUCT HIGHLIGHTS:
Non-mercury based catalyst system
Excellent for vacuum or pressure casting
RoHS compliant
Low viscosity
Three to four hour demold time
UL 94 V0 Flammability Rating (File# E174527)

General Information	
UL YellowCard	E174527-101030950
Features	Flame Retardant High Impact Resistance High Rigidity Low Viscosity
Uses	Electrical/Electronic Applications Housings
RoHS Compliance	RoHS Compliant
UL File Number	E174527
Appearance	Off-White Opaque
Forms	Liquid
Processing Method	Casting Encapsulating

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- [1]	1.10	g/cm³	
--	1.26	g/cm³	
-- [2]	1.38	g/cm³	
Specific Volume	0.816	cm³/g	
Gel Time	18.0	min	
Work Time [3] (25°C)	15.0	min	
Molding Shrinkage - Flow	0.050	%	ASTM D2566

Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	76 to 80		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1540	MPa	ASTM D638
Tensile Strength (Yield)	41.0	MPa	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus	1830	MPa	ASTM D790
Flexural Strength	66.2	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, Unannealed	87.8	°C	
1.8 MPa, Unannealed	78.3	°C	
Ball Pressure Test			IEC 60695-10-2
75°C, 1.20 mm	Pass		
75°C, 1.30 mm	Pass		
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant (1 MHz)	3.34		ASTM D150
Dissipation Factor (1 MHz)	0.016		ASTM D150
Flammability	**Nominal Value**		**Test Method**
Flame Rating	V-0		UL 94
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: 85, Mix Ratio by Volume: 68		
Shelf Life	26	wk	
Thermoset Mix Viscosity			ASTM D2393
25°C [4]	310	cP	
25°C [5]	3200	cP	
25°C [6]	75.0	cP	
Demold Time (25°C)	180 to 240	min	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part A		
2.	Part B		
3.	100g mass		
4.	Mixed		
5.	Part B		
6.	Part A		

Recommended distributors for this material

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