

BJB Polyurethane TC-885 FR REV 1

Polyurethane
BJB Enterprises, Inc.

Message:

TC-885 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 6 minutes.

PRODUCT HIGHLIGHTS:

- Non-mercury based catalyst system
- Excellent for vacuum or pressure casting
- RoHS compliant
- Low viscosity
- One to two hour demold time
- UL 94 V0 Flammability Rating

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
Appearance	Off-White
	Opaque
Forms	Liquid
Processing Method	Casting
	Encapsulating

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.10	g/cm ³	
--	1.26	g/cm ³	
-- ²	1.38	g/cm ³	
Specific Volume	0.816	cm ³ /g	
Gel Time	7.0	min	
Work Time ³ (25°C)	6.0	min	
Molding Shrinkage - Flow	0.070	%	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		
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)	60 to 120	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		

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