

BJB Polyurethane TC-878 A/B

Polyurethane

BJB Enterprises, Inc.

Message:

TC-878 A/B produces a high impact rigid 78 Shore D material with excellent heat resistance. This product is a clear casting system that is easy to tint or pigment. TC-878 A/B can be easily processed by hand or meter-mix dispense equipment.

General Information			
Features	High Heat Resistance		
	High Impact Resistance		
	High Rigidity		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Yellow		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.03	g/cm ³	
-- ²	1.08	g/cm ³	
--	1.09	g/cm ³	
Specific Volume	0.950	cm ³ /g	
Gel Time	25.0	min	
Work Time ³ (25°C)	15.0	min	
Molding Shrinkage - Flow	0.50	%	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	876	MPa	ASTM D638
Tensile Strength (Yield)	29.2	MPa	ASTM D638
Tensile Elongation (Yield)	160	%	ASTM D638
Flexural Modulus	889	MPa	ASTM D790
Flexural Strength	34.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	66	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	62.8	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 85, Mix Ratio by Volume: 81		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity			ASTM D2393
25°C ⁴	1250	cP	
25°C ⁵	1630	cP	
25°C ⁶	600	cP	
Demold Time (25°C)	480 to 600	min	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part B		
2.	Part A		
3.	100g mass		
4.	Mixed		
5.	Part B		
6.	Part A		

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