BJB Polyurethane WC-783 A/B

Polyurethane

BJB Enterprises, Inc.

Message:

WC-783 A/B is an impact resistant, rigid, 82 Shore D material that is commonly used to make clear or tinted castings of all kinds. When used at room temperature, castings 1/8" thick or larger can be readily cast. Castings that are less than 1/8" thick generally require a mild post-cure.

General Information			
Features	Good Impact Resistance Good UV Resistance Good Weather Resistance High Clarity Low to No Odor Oxidation Resistant		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.05	g/cm³	ASTM D792
Specific Gravity			
Part A	1.057	g/cm³	
Part B	1.027	g/cm³	
Shrinkage			
-- [1]	0.20	%	
-- [2]	0.20	%	
-- [3]	0.20	%	
Coefficient of Linear Thermal Expansion (-20 to 130°C)	9.00E-5		
Demold Time (25°C)	6.0 to 8.0	hr	
Work Time (25°C) [4]	15.0	min	
Brookfield Viscosity			
Mixed : 25°C	600 to 700	mPa·s	
Part A : 25°C	550 to 650	mPa·s	
Part B : 25°C	550	mPa·s	
Cure Time (25°C) [5]	5.0 to 7.0	day	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	80 to 84		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1790	MPa	ASTM D638

Tensile Strength (Yield)	45.9	MPa	ASTM D638
Tensile Elongation (Yield)	65	%	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Compressive Modulus	2410	MPa	ASTM D695
Compressive Strength	57.6	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	70.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 90, Mix Ratio by Volume: 93		
Shelf Life	26	wk	
NOTE			
1.	12"x1/2"x1/2", 5 min work time		
2.	12"x1/2"x1/2", 15 min work time		
3.	12"x1/2"x1/2", 30 min work time		
4.	100g		
5.	For maximum physical properties, a post cure with heat is required (16 hrs at 180°F). Cure will be inhibited if cast against a tin catalyzed silicone RTV.		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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