Rigid Cast RC-8006 FR

Polyurethane

BJB Enterprises, Inc.

Message:

Rigid-Cast 8006 FR A/B produces a tough, rigid 78 Shore D urethane based material for use in making small detailed parts, models, prototypes and limited runs of production parts. This material has a convenient 1 to 2 parts by volume ratio, with an approximate three-minute working time, ideal for hand dispensing using dual cartridge static mix equipment.
Product Highlights:
Designed for cartridge dispensing
Parts can demold in 45 to 60 minutes
Convenient 1:2 ratio by weight or volume
Heat resistance to 195°F (91°C)
Meets UL 94V-0 classification
Non-mercury containing catalyst system
Non-brittle during early cure and after demold

General Information			
Features	Medium Heat Resistance Thixotropic		
Appearance	Cream		
Forms	Liquid		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.25	g/cm³	ASTM D792
Shrinkage			
6.35 mm [1]	0.30	%	
6.35 mm [2]	0.20	%	
Work Time (25°C)	2.5 to 3.0	min	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	76 to 80		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	896	MPa	ASTM D638
Tensile Strength	33.1	MPa	ASTM D638
Tensile Elongation (Yield)	3.8	%	ASTM D638
Flexural Modulus	1930	MPa	ASTM D790
Flexural Strength (Yield)	64.1	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	26	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	87.8 to 93.3	°C	
1.8 MPa, Unannealed	82.2	°C	
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: 50, Mix Ratio by Volume: 50		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Thermoset Mix Viscosity	800	cP	ASTM D2393
Demold Time	45 to 60	min	
Post Cure Time (25°C)	2.0 to 4.0	hr	
NOTE			
1.	Post-cure, Method 1		
2.	7-day ambient cure		

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