

Bayflex® LSR 10

Polyurethane

Covestro - PUR

Message:

Bayflex LSR 10 is a solid elastomer which has a flexural modulus of 17,500 psi at room temperature. It is processed on reaction injection molding (RIM) equipment and is used for glass encapsulation of windows. This system combines rapid demold times, excellent integrity at demold, and outstanding physical properties.

The Bayflex LSR 10 system was developed to add a weather-resistant grade to our range of window encapsulation systems. In some cases, the weatherability of this system eliminates the need for post-painting or in-mold coatings. This product is available only in black. Bayflex LSR 10 is a formulated RIM system supplied as two reactive liquid components. Component A is a diphenylmethane diisocyanate (MDI) prepolymer, and component B is a polyether polyol. As with any product, use of the Bayflex LSR 10 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information		
Forms	Liquid	
Processing Method	Reaction Injection Molding (RIM)	
Physical	Nominal Value	Unit
Density	1.03	g/cm ³
Viscosity		
25°C ¹	100	mPa · s
25°C ²	1320	mPa · s
Weatherometer Aging - Delta E ³	1.70	SAE J2527
Flash Point		
-- ⁴	> 93	°C
-- ⁵	> 121	°C
Arizona Weathering - Delta E ⁶	0.350	GM 9327P
Florida Weathering - Delta E ⁷	1.70	GM 9327P
Sunshine Carbon Arc - Delta E ⁸	1.30	
Hardness	Nominal Value	Unit
Durometer Hardness		
Shaw A, 1 sec	94	
Shaw A, 5 seconds	93	
Shaw D, 1 sec	44	
Shaw D, 5 seconds	42	
Mechanical	Nominal Value	Unit
Tensile Strength	14.1	MPa
Tensile Elongation (Break)	200	%
Flexural Modulus		
-30°C	309	MPa
25°C	121	MPa
70°C	15.7	MPa
Elastomers	Nominal Value	Unit

Tear Strength ⁹	40.3	kN/m
Compression Set ¹⁰	67	%
Thermoset	Nominal Value	Test Method
Thermoset Components		
Component a ¹¹	Mixing ratio by weight: 54	
Component B ¹²	Mixing ratio by weight: 100	
Additional Information	Nominal Value	Test Method
Part A Type: Isocyanate Specific Gravity @ 25°C: 1.07 Viscosity @25°C: 100 mPa-s Flash Point PMCC: >93.3 °C Part B Type: Polyol Specific Gravity @ 25°C: 1.03 Viscosity @25°C: 1320 mPa-s Flash Point PMCC: >121 °C		
Injection	Nominal Value	Unit
Mold Temperature	80.0 - 100	°C
Injection instructions		
Polyol Temperature: 48 to 55°C Isocyanate Temperature: 40 to 46°C Polyol Nucleation: 0.9 to 1.00 S.G. Typical Cure Time at 0.125 in: 30 sec Machine Reactivity at 40°C, Gel Time: 8 sec		
NOTE		
1.	Component A (Isocyanate)	
2.	Component B (Polyol)	
3.	2500 kJ/m ² , Atlas CXW Open Flame, ASTM G155, Cycle 7	
4.	Component A (Isocyanate), PMCC	
5.	Component B (Polyol), PMCC	
6.	2 years	
7.	2 years	
8.	1000 hr	
9.	C mould	
10.	25% Deflection	
11.	Isocyanate	
12.	Polyol	

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