

Bayfit® SA 511 (85 Index)

Polyurethane (MDI)

Covestro - PUR

Message:

Bayfit SA 511 is a system for producing flexible polyurethane foam used as an acoustic countermeasure in various applications including carpet backing, dash insulators, etc. This foam is formulated to meet the necessary adhesive requirements between substrate materials and polyurethane foam, along with NAFTA OEM physical property specifications. This special formulation may be used with either open pour or closed pour mold filling techniques. Bayfit SA 511 is available as a two-component polyurethane system from Covestro. As with any product, use of Bayfit SA 511 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

General Information			
Uses		Carpet backing Foam	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.0450	g/cm ³	ASTM D3574A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	0.126	MPa	ASTM D3574E
Tensile Elongation ² (Break)	140	%	ASTM D3574E
Elastomers	Nominal Value	Unit	Test Method
Compression Set ³	10	%	ASTM D3574D
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components ⁴			
Component a		Mixing ratio by weight: 54	
Component B		Mixing ratio by weight: 100	
Additional Information	Nominal Value	Unit	Test Method
Compression Deformation Stress - 40%	0.00330	MPa	ISO 3386
Part A			
Type: Isocyanate			
Appearance: Amber Liquid			
Specific Gravity @ 25°C: 1.24			
Viscosity @25°C: 30 to 40 mPa-s			
Part B			
Type: Polyol			
Appearance: Opaque liquid			
Specific Gravity @ 25°C: 1.02			
Viscosity @25°C: 920 mPa-s			
Material Temperature: 24 to 30°C Mold Temperature: 60 to 70°C Demold Time: 105 to 110 sec Mold Release Type: Solvent Based or Non-Solvent Based Machine Reactivity at 25°C			
Cream Time: 7 to 9 sec			
Top of Cup Time: 17 to 19 sec			
String Gel: 30 to 32 sec			
Rise Time: 48 to 52 sec			
Free-Rise Density: 1.9 to 2.2 lb/ft ³			
NOTE			
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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

