

Bayfit® SA512 (75 Index)

Polyurethane

Covestro - PUR

Message:

Bayfit SA512 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 black-pigmented and 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 SA512 is available as a two-component polyurethane system from Bayer MaterialScience. As with any product, use of the Bayfit SA512 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Uses	Carpet backing Foam		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Density	0.0500	g/cm ³	ASTM D3574A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	0.0870	MPa	ASTM D3574D
Tensile Elongation ² (Break)	130	%	ASTM D3574E
Elastomers	Nominal Value	Unit	Test Method
Compression Set - 50%, Ct value	13	%	ASTM D3574D
Compression Deformation Stress - 40%	0.00270	MPa	ISO 3386
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components ³			
Component a	Mixing ratio by weight: 54		
Component B	Mixing ratio by weight: 100		
Additional Information	Nominal Value	Unit	Test Method
Part A Type: Isocyanate Appearance: Dark brown liquid Specific Gravity @ 25°C: 1.24 Viscosity @25°C: 23 to 24 MPa			
Part B Type: Polyol Appearance: Black liquid Specific Gravity @ 25°C: 1.02 Viscosity @25°C: 920 mPa-s Material Temperatures: 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 Reactivity (Machine Mix) at 25°C Cream Time: 7 to 9 sec Top of Cup: 17 to 19 sec String Gel: 30 to 32 sec Rise Time: 48 to 52 sec Free Rise Density: 1.9 to 2.2			
NOTE			
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2.	Suffix T skin one side
3.	85 Index

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