

Baytec® GS-V85A (82A)

Polyurethane Thermoset Elastomer

Covestro - PUR

Message:

Baytec GS-V85A is a two-component, one-shot system that yields a solid polyurethane elastomer. The isocyanate component is an isocyanate-terminated (MDI) polyester prepolymer, and the polyol component is a polyethylene/polybutylene adipate diol. The Baytec GS-V85A system is used in the production of cast polyurethane elastomers. As with any product, use of the Baytec GS-V85A system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Forms	Liquid		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	82		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	39.9	MPa	ASTM D412
Tensile Elongation (Break)	480	%	ASTM D412
Tear Strength			
-- ¹	56.0	kN/m	ASTM D624
Cracking	12	kN/m	ASTM D1938
Compression Set (70°C, 22 hr)	20	%	ASTM D395B
Bayshore Resilience	51	%	ASTM D2632
Thermoset	Nominal Value		
Thermoset Components			
Part C ²	Mixing ratio by weight: 7.5		
Component a ³	Mixing ratio by weight: 60		
Component B ⁴	Mixing ratio by weight: 93		
Additional Information			
Part A			
Type: Isocyanate			
Appearance: Pale yellow liquid			
Specific Gravity @ 25°C: 1.20			
Viscosity @25°C: 1100 mPa			
Flash Point, PMCC: 207°C			
NCO: 18.9 wt%			
Bulk Density at 25°C: 10.01 lb/gal			
Part B			
Type: Polyol			
Appearance: Light yellow liquid			
Specific Gravity @ 25°C: 1.17			
Viscosity @25°C: Semisolid			
Flash Point, PMCC: 216°C			
Bulk Density at 25°C: 9.76 lb/gal			
Hydroxyl Number: 55 mg KOH/g			
Material Temperature: 55 to 60°C Mold Temperature: 110°C Demold Time: 0.5 to 4 hr			
NOTE			
1.	C mould		

2.	1,4 Butone Diol
3.	Isocyanate
4.	Polyol

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