

Baytec® 352 (82A)

Polyurethane Thermoset Elastomer

Covestro - PUR

Message:

Baytec 352 is a two-component, one-shot system that yields a solid polyurethane elastomer with good mechanical properties in the hardness range of Shore 75A to 90A. As with any product, use of Baytec 352 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
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles)	80.0	mg	ASTM D3489
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	14.1	MPa	ASTM D412
Tensile Elongation (Break)	280	%	ASTM D412
Tear Strength			
-- ¹	71.6	kN/m	ASTM D624
Cracking	35	kN/m	ASTM D1938
Compression Set (70°C, 22 hr)	69	%	ASTM D395B
Bayshore Resilience	27	%	ASTM D2632
Thermoset	Nominal Value		
Thermoset Components			
Part C ²	Mixing ratio by weight: 10		
Component a ³	Mixing ratio by weight: 52		
Component B ⁴	Mixing ratio by weight: 100		
Additional Information			

Values at an Index of 1.05Part A

Type: Isocyanate

Appearance: Pale yellow liquid

Specific Gravity @ 25°C: 1.22

Viscosity @25°C: 105 to 175 mPa

Flash Point, PMCC: 213°C

NCO: 25.5 to 26.5 wt%

Bulk Density at 25°C: 10.17 lb/gal

Part B

Type: Polyol

Appearance: White solid

Specific Gravity @ 25°C: 1.11

Viscosity @73°C: 1620 mPa-s

Flash Point, PMCC: 110°C

Bulk Density at 25°C: 9.179 lb/gal

Water: <0.05 wt% max

Hydroxyl Number: 45 to 53 mg KOH/g

Acid Number: 0.5 mg KOH/g max

Baytec 352 Isocyanate Temperature: 25°C Baytec 352 Polyol/Extender Blend Temperature: 80°C Mold Temperature: 110°C Demold Time: 1 to 4 hr Post

Cure: 16 hr at 110°C

NOTE

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

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