

# Baytec® MS-092 (HQEE)

Polyurethane (Polyester, MDI)

Covestro - PUR

## Message:

Baytec MS-092 is a modified diphenylmethane diisocyanate (MDI)-terminated polyester prepolymer. It is used in the manufacture of high-property solid cast polyurethane elastomers. As with any product, use of Baytec MS-092 prepolymer 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 D)	50	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	42.0	mg	ASTM D3498
Compression Deflection			ASTM D575
10%	4.83	MPa	ASTM D575
15%	8.96	MPa	ASTM D575
2%	0.827	MPa	ASTM D575
20%	22.8	MPa	ASTM D575
25%	33.1	MPa	ASTM D575
5%	3.45	MPa	ASTM D575
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	13.1	MPa	ASTM D412
200% strain	15.5	MPa	ASTM D412
300% strain	19.3	MPa	ASTM D412
Tensile Strength (Break)	42.1	MPa	ASTM D412
Tensile Elongation (Break)	480	%	ASTM D412
Tear Strength			
-- 1	118	kN/m	ASTM D624
Cracking	66	kN/m	ASTM D1938
Compression Set (70°C, 22 hr)	26	%	ASTM D395
Bayshore Resilience	42	%	ASTM D2632
Additional Information			
Appearance: Pale yellow liquidNCO: 8.95 to 9.34 wt%Flash Point, PMCC: 222°CSpecific Gravity at 80°C: 1.15Specific Gravity at 100°C: 1.13Viscosity at 80°C: 750 mPa-sViscosity at 100°C: 365 mPa-sNCO/OH Ratio: 1.10Stoichiometry: 90% TheoryPrepolymer Temperature: 90 to 100°CExtender Temperature: 100 to 110°C Mold Temperature: 100 to 110°C Pot Life: 2 to 4 minDemold: 30 min			
NOTE			
1.	C mould		

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