

Baytec® MS-092 (BDO)

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			ASTM D2240
Shaw A	93		ASTM D2240
Shaw D	43		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	30.0	mg	ASTM D3498
Compression Deflection			ASTM D575
10%	3.65	MPa	ASTM D575
15%	5.17	MPa	ASTM D575
2%	0.517	MPa	ASTM D575
20%	6.69	MPa	ASTM D575
25%	8.27	MPa	ASTM D575
5%	1.90	MPa	ASTM D575
50%	22.9	MPa	ASTM D575
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	10.2	MPa	ASTM D412
200% strain	13.5	MPa	ASTM D412
300% strain	17.9	MPa	ASTM D412
Tensile Strength (Break)	47.4	MPa	ASTM D412
Tensile Elongation (Break)	510	%	ASTM D412
Tear Strength			
-- ¹	118	kN/m	ASTM D624
Cracking	48	kN/m	ASTM D1938
Compression Set (70°C, 22 hr)	22	%	ASTM D395
Bayshore Resilience	43	%	ASTM D2632
Additional Information			
Appearance: Pale yellow liquid NCO: 8.95 to 9.34 wt% Flash Point, PMCC: 222°C Specific Gravity at 80°C: 1.15 Specific Gravity at 100°C: 1.13 Viscosity at 80°C: 750 mPa·s Viscosity at 100°C: 365 mPa·s NCO/OH Ratio: 1.05 Stoichiometry: 95% Theory Prepolymer Temperature: 80 to 95°C Extender Temperature: 25 to 70°C Mold Temperature: 100 to 110°C Pot Life: 2 to 6 min Demold: 30 min			
NOTE			

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