

Baytec® MP-090 (HQEE)

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Baytec MP-090 is a modified diphenylmethane diisocyanate (MDI)-terminated polyether prepolymer based on polypropylene ether glycol (PPG). This prepolymer is used in the manufacture of cast polyurethane elastomers. As with any product, use of Baytec MP-090 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	95	ASTM D2240	
Shaw D	56	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	50.0	mg	ASTM D4066
Compression Deflection			ASTM D575
10%	5.03	MPa	ASTM D575
15%	7.10	MPa	ASTM D575
2%	0.448	MPa	ASTM D575
20%	9.24	MPa	ASTM D575
25%	11.6	MPa	ASTM D575
5%	2.45	MPa	ASTM D575
50%	41.4	MPa	ASTM D575
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	9.65	MPa	ASTM D412
200% strain	18.2	MPa	ASTM D412
300% strain	21.5	MPa	ASTM D412
Tensile Strength (Break)	28.4	MPa	ASTM D412
Tensile Elongation (Break)	350	%	ASTM D412
Tear Strength			
-- ¹	81.8	kN/m	ASTM D624
Cracking	21	kN/m	ASTM D1938
Compression Set (70°C, 22 hr)	30	%	ASTM D395
Bayshore Resilience	29	%	ASTM D2632
Additional Information			
Appearance: Pale yellow liquidNCO: 8.95 to 9.24 wt%Specific Gravity at 80°C: 1.07Specific Gravity at 100°C: 1.06Viscosity at 80°C: 255 mPa-sViscosity at 100°C: 115 mPa-sNCO/OH Ratio: 1.10Stoichiometry: 90% TheoryPrepolymer Temperature: 90 to 100°CExtender Temperature: 100 to 110°C Mold Temperature: 90 to 110°C Pot Life: 6.5 minDemold: 60 min			
NOTE			

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