

Baytec® MS-080 (BDO)

Polyurethane (Polyester, MDI)

Covestro - PUR

Message:

Baytec MS-080 modified diphenylmethane diisocyanate (MDI)-terminated polyester prepolymer is used in the manufacture of high-property solid cast polyurethane elastomers. As with any product, use of Baytec MS-080 prepolymer in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

General Information			
Forms	Liquid		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore A)	90	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	15.0	mg	ASTM D4066
Compression Deflection			ASTM D575
10%	3.03	MPa	ASTM D575
15%	4.24	MPa	ASTM D575
2%	0.586	MPa	ASTM D575
20%	5.45	MPa	ASTM D575
25%	6.76	MPa	ASTM D575
5%	1.65	MPa	ASTM D575
50%	19.9	MPa	ASTM D575
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	7.58	MPa	ASTM D412
200% strain	11.6	MPa	ASTM D412
300% strain	19.3	MPa	ASTM D412
Tensile Strength (Break)	48.3	MPa	ASTM D412
Tensile Elongation (Break)	470	%	ASTM D412
Tear Strength			
-- ¹	105	kN/m	ASTM D624
Cracking	56	kN/m	ASTM D1938
Compression Set (70°C, 22 hr)	15	%	ASTM D395
Bayshore Resilience	50	%	ASTM D2632
Additional Information			

Appearance: White to cream solidNCO: 8.1 to 8.5 wt%Flash Point, PMCC: 224°CSpecific Gravity at 80°C: 1.12Specific Gravity at 100°C: 1.11Viscosity at 80°C: 1210 mPa-sViscosity at 100°C: 590 mPa-sNCO/OH Ratio: 1.05Stoichiometry: 95% TheoryPrepolymer Temperature: 80 to 90°CExtender Temperature: 25 to 70°C Mold Temperature: 90 to 110°C Pot Life: 2 to 4 minDemold: 30 min

NOTE			
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1. C mould

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