

Baytec® MS-242 (BDO)

Polyurethane (Polyester, MDI)

Covestro - PUR

Message:

Baytec MS-242 is a modified diphenylmethane diisocyanate (MDI)-terminated polyester prepolymer. It is used in the manufacture of high-property solid cast polyurethane elastomers, such as forklift tires, sheet goods, wheels, rollers, and seals. As with any product, use of Baytec MS-242 prepolymer in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Uses	Wheels		
	Roller		
	Seals		
	Sheet		
Forms	Liquid		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore A)	85	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	30.0	mg	ASTM D4060
Compression Deflection			ASTM D575
10%	2.07	MPa	ASTM D575
15%	3.03	MPa	ASTM D575
2%	0.552	MPa	ASTM D575
20%	4.07	MPa	ASTM D575
25%	5.10	MPa	ASTM D575
5%	1.17	MPa	ASTM D575
50%	14.5	MPa	ASTM D575
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	5.72	MPa	ASTM D412
200% strain	8.38	MPa	ASTM D412
300% strain	12.1	MPa	ASTM D412
Tensile Strength (Break)	49.3	MPa	ASTM D412
Tensile Elongation (Break)	580	%	ASTM D412
Tear Strength			
-- ¹	91.9	kN/m	ASTM D624
Cracking	53	kN/m	ASTM D1938
Compression Set (70°C, 22 hr)	24	%	ASTM D395
Bayshore Resilience	32	%	ASTM D2632
Additional Information			

Appearance: Light yellow solidNCO: 6.45 to 6.74 wt%Flash Point, PMCC: 260°CSpecific Gravity at 80°C: 1.18Specific Gravity at 100°C: 1.17Viscosity at 80°C: 1460 mPa-sViscosity at 100°C: 600 mPa-sNCO/OH Ratio: 1.05Stoichiometry: 95% TheoryPrepolymer Temperature: 90 to 100°CExtender Temperature: 25 to 70°C Mold Temperature: 90 to 110°C Pot Life: 3 to 7 minDemold: 45 to 90 min

NOTE

1. C mould

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