

Baydur® 730 IBS (25 pcf)

Polyurethane (MDI)

Covestro - PUR

Message:

Baydur 730 IBS is a rigid polyurethane structural foam system used in the reaction injection molding (RIM) process. This system incorporates a specially engineered interactive blowing system (IBS) and is supplied as two reactive liquid components. Component A is a modified polymeric diphenylmethane diisocyanate (PMDI) prepolymer blend, and Component B is a formulated polyol system containing no CFC- or HCFC-blowing additives. The Baydur 730 IBS system was designed for general-purpose applications and is used in the construction, agricultural, consumer products, industrial and specialty automotive markets. The applications typically take advantage of the material's strength, as well as its excellent surface finish, large part capability and good flowability. As with any product, use of the Baydur 730 IBS system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Additive	Blowing Agent		
Features	Good Flow		
	Good Strength		
	Good Surface Finish		
Uses	Agricultural Applications		
	Automotive Applications		
	Construction Applications		
	General Purpose		
	Industrial Applications		
Processing Method	Reaction Injection Molding (RIM)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.399	g/cm ³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
6.35 mm	0.70 to 0.90	%	
12.7 mm	0.70 to 0.90	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 6.35 mm	50		
Shore D, 12.7 mm	50		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Break, 6.35 mm	8.27	MPa	
Break, 12.7 mm	8.96	MPa	
Tensile Elongation			ASTM D638
Break, 6.35 mm	10	%	
Break, 12.7 mm	12	%	
Flexural Modulus			ASTM D790


6.35 mm	400	MPa	
12.7 mm	359	MPa	
Flexural Strength			ASTM D790
6.35 mm	13.8	MPa	
12.7 mm	17.2	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ¹	12	kJ/m ²	Internal Method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	70.0	°C	
0.45 MPa, Unannealed, 12.7 mm	70.0	°C	
NOTE			
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