

# Baydur® 742 IBS (41 pcf)

Polyurethane (MDI)

Covestro - PUR

## Message:

Baydur 742 IBS is a semirigid 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. Baydur 742 IBS system is used in the consumer products market for applications requiring some protective cushioning characteristics. The system is typically molded at medium-to-high densities. As with any product, use of the Baydur 742 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		
Uses	Structural Foam		
Processing Method	Reaction Injection Molding (RIM)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.658	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (12.7 mm)	0.90 to 1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 12.7 mm)	49		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 12.7 mm)	9.31	MPa	ASTM D638
Tensile Elongation (Break, 12.7 mm)	140	%	ASTM D638
Flexural Modulus (12.7 mm)	183	MPa	ASTM D790
Flexural Strength (12.7 mm)	10.1	MPa	ASTM D790
Compressive Strength (12.7 mm)	3.17	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength <sup>1</sup>	No Break		Internal Method
NOTE			
1.	0.5 in		

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