Baydur® 730 IBS (40 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			
UL YellowCard	E61384-247037		
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	0.638	g/cm³	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	65		
Shore D, 12.7 mm	65		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Break, 6.35 mm	18.6	MPa	
Break, 12.7 mm	17.2	MPa	
Tensile Elongation			ASTM D638
Break, 6.35 mm	10	%	
Break, 12.7 mm	12	%	

Flexural Modulus			ASTM D790
6.35 mm	965	MPa	
12.7 mm	896	MPa	
Flexural Strength			ASTM D790
6.35 mm	34.5	MPa	
12.7 mm	37.9	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength			Internal Method
-- [1]	21	kJ/m^2	
-- [2]	27	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	94.0	°C	
0.45 MPa, Unannealed, 12.7 mm	90.0	°C	
NOTE			
1.	0.5		
2.	0.25 in		

Recommended distributors for this material

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