

Baydur® 645 (15 pcf)

Polyurethane (MDI)

Covestro - PUR

Message:

Baydur 645 is a rigid polyurethane structural foam system used in the reaction injection molding (RIM) process. The system is supplied as two reactive liquid components. Component A is a polymeric diphenylmethane diisocyanate (PMDI), and Component B is a formulated polyol system containing no CFC- or HCFC-blowing additives.

The Baydur 645 system is used to produce foam cores for composite applications, such as water skis, agricultural and construction equipment, and various components for the transportation and marine markets. As with any product, use of the Baydur 645 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Uses	Agricultural Applications		
	Automotive Applications		
	Marine Applications		
	Sporting Goods		
	Structural Foam		
Processing Method	Reaction Injection Molding (RIM)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.239	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 6.35 mm	28		
Shore D, 12.7 mm	30		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Break, 6.35 mm	3.86	MPa	
Break, 12.7 mm	3.79	MPa	
Tensile Elongation			ASTM D638
Break, 6.35 mm	7.0	%	
Break, 12.7 mm	9.0	%	
Flexural Modulus			ASTM D790
6.35 mm	221	MPa	
12.7 mm	186	MPa	
Flexural Strength			ASTM D790
6.35 mm	6.55	MPa	
12.7 mm	6.89	MPa	
Compressive Strength			ASTM D695
6.35 mm	2.96	MPa	
12.7 mm	1.90	MPa	
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength		Internal Method
-- ¹	4.0	kJ/m ²
-- ²	3.8	kJ/m ²
NOTE		
1.	0.5	
2.	0.25 in	

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