Baydur® 665 IBS (30 pcf)

Polyurethane (MDI)

Covestro - PUR

Message:

Baydur 665 IBS is a black-pigmented, 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 polymeric diphenylmethane diisocyanate (PMDI), and Component B is a formulated polyol system containing no CFC- or HCFC-blowing additives. Note: Component B should be agitated thoroughly prior to delivery of drum contents to day tank due to possible pigment settling.
The Baydur 665 IBS system is used for general-purpose applications that require injection times longer than 10 seconds. The applications, typically found in the construction, furniture, and transportation markets, 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 665 IBS system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Features	Good liquidity Good strength General Excellent appearance		
Uses	Structural Foam Furniture General		
Appearance	Black		
Processing Method	Reaction Injection Molding (RIM)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.399	g/cm³	ASTM D792
Molding Shrinkage - Flow (12.7 mm)	0.30 - 0.50	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 12.7 mm)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break, 12.7 mm)	12.4	MPa	ASTM D638
Tensile Elongation (Break, 12.7 mm)	7.0	%	ASTM D638
Flexural Modulus (12.7 mm)	627	MPa	ASTM D790
Flexural Strength (12.7 mm)	26.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength [1]	12	kJ/m²	Internal method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, unannealed, 12.7mm)	95.0	°C	ASTM D648
Thermoset	**Nominal Value**		
Thermoset Components			
Component a	Mixing ratio by weight: 120		

Component B	Mixing ratio by weight: 100

Additional Information

Part A
Type: Isocyanate
Appearance: Dark brown liquid
Specific Gravity @ 25°C: 1.24
Viscosity @25°C: 200 cps
Flash Point PMCC: 199°C
NCO: 31.0 max wt%
Part B
Type: Polyol
Appearance: Black liquid
Specific Gravity @ 25°C: 1.05
Viscosity @25°C: 2000 cps
Flash Point PMCC: 130°C
Water: 0.4 wt%
Hydroxyl Number: 465 KOH/g
Material Temperatures: 32 to 38°CMold Temperature: 60 to 70°CHand Mix Reactivity at 25°C
Cream Time: 45 sec
Gel Time: 90 sec
Tack Free Time: 115 sec
Free-Rise Density: 12 lb/ft^3
Polyol Nucleation Specific Gravity: 0.80 to 0.85 0Typical cure Time, 0.250 in Thickness: 4 to 5

NOTE

1.	0.5 in

Recommended distributors for this material

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