Baydur® 728 IBS (55 pcf)

Polyurethane (MDI)

Covestro - PUR

Message:

Baydur 728 IBS is a high-density polyurethane structural foam system used in the reaction injection molding (RIM) process. This system incorporates a specially engineered interactive blowing system (IBS) and internal mold release (IMR). 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.
Baydur 728 IBS system is used in applications requiring a UL94 flammability rating of V-0 and/or 5VA for use in electronic, equipment housing, and appliance markets. The applications typically take advantage of the material's strength, excellent surface finish, and large-part capability. As with any product, use of the Baydur 728 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	E61384-475117	E61384-475574	
Additive	Blowing Agent Mold Release		
Features	Good Strength Good Surface Finish		
Uses	Appliances Electrical/Electronic Applications Housings		
Processing Method	Reaction Injection Molding (RIM)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Molding Shrinkage - Flow (6.35 mm)	0.70 to 0.95	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Break, 3.18 mm	22.8	MPa	
Break, 3.96 mm	35.2	MPa	
Break, 6.35 mm	30.4	MPa	
Tensile Elongation			ASTM D638
Break, 3.18 mm	6.0	%	
Break, 3.96 mm	10	%	
Break, 6.35 mm	9.0	%	
Flexural Modulus			ASTM D790
3.18 mm	1540	MPa	
3.96 mm	1760	MPa	
6.35 mm	1650	MPa	
Flexural Strength			ASTM D790

3.18 mm	55.8	MPa	
3.96 mm	68.2	MPa	
6.35 mm	58.6	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength			
-- [1]	19	kJ/m^2	Internal Method
-- [2]	25	kJ/m^2	Internal Method
Notched Izod Impact			ASTM D256
3.18 mm	21	J/m	
3.96 mm	27	J/m	
6.35 mm	27	J/m	
Unnotched Izod Impact			ASTM D256
3.18 mm	160	J/m	
3.96 mm	210	J/m	
6.35 mm	160	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	70.0	°C	
0.45 MPa, Unannealed, 3.96 mm	80.0	°C	
0.45 MPa, Unannealed, 6.35 mm	100	°C	
CLTE - Flow			ASTM D696
70°C, 3.18 mm	1.1E-4	cm/cm/°C	
70°C, 3.96 mm	1.0E-4	cm/cm/°C	
70°C, 6.35 mm	9.0E-5	cm/cm/°C	
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
	V-0		
3.18 mm	5VA		
	V-0		
3.96 mm	5VA		
	V-0		
6.35 mm	5VA		
NOTE			
1.	0.25 in		
2.	0.156 in		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China