



BAYDUR[®] 728 IBS

Characterization

Baydur 728 IBS is a high-density polyurethane structural foam system used in the reaction injection molding (RIM) process.

Properties / Applications

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.

Storage and Handling

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.

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Typical properties* of system

Property	ASTM Test		Molded Parts Density (lbs/ft ³)						
	Method (Other)	Units	55	65	45	55	35	40	55
Thickness		in	0.125	0.125	0.156	0.156	0.25	0.25	0.25
Mold Shrinkage	(Bayer)	%	Not tested	Not tested	Not tested	Not tested	Not tested	0.70- 0.90	0.70 - 0.95
Flexural Modulus	D 790	psi	223,000	303,000	185,000	255,000	118,000	135,000	239,000
Flexural Strength	D 790	psi	8,100	11,000	7,100	9,890	3,900	4,500	8,500
Tensile Strength Ultimate	D 638	psi	3,300	5,700	3,600	5,100	1,906	2,400	4,406
Tensile Elongation Ultimate	D 638	%	6	8	8	10	8	9	9
Charpy Impact	(Bayer)	ft•lb/in ²	12	15	11	12	6	6	9
Notched Izod	D 256	ft•lb/in	0.4	0.5	0.4	0.5	0.2	0.3	0.5
Unnotched Izod	D 256	ft•lb/in	3	5	4	4	2	2	3
HDT at 66 psi	D 648	°C	70	76	88	80	71	76	100
CLTE at 70°C	D 696	ALPHA (E-06)	110	105	105	100	105	100	90
UL94 Flame Class**	(UL94)	Rating	V-0/5VA	V-0/5VA	V-0/5VA	V-0/5VA	Not tested	V-0/5VA	V-0/5VA

*These items are provided as general information only. They are approximate values and are not part of the product specifications.

** Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.



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Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Covestro LLC representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

This product is not designated as "Medical Grade" and therefore shall not be considered a candidate for the manufacture of a medical device or of intermediate products for medical devices, which are intended under normal use to be brought into direct contact with the patient's body (e.g., skin, body fluids or tissues, including indirect contact to blood). If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, Covestro LLC must be contacted in advance, in writing, to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices must be made solely by the purchaser of the product without relying upon any representations by Covestro LLC. For further information, please see the "Guidance on Use of Covestro Products in a Medical Application" document which can be located at www.productsafetyfirst.covestro.com

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