Bayer Corporation

Bayer

Polymers Division

For use in AL & spray metal molds

BAYDUR® 726 IBS

Structural Foam RIM System

Product Code: **U726**

POLYURETHANES

Product Information

Description

Baydur 726 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 modified polymeric diphenylmethane diisocyanate (PMDI) prepolymer blend, and Component B is a formulated polyol system containing no CFC- or HCFC-blowing additives. *Note:* Component B phase-separates upon standing and must be mixed thoroughly via mechanical means prior to use.

Baydur 726 IBS system is used in applications requiring a UL94 flammability rating* of V-0 and/or 5VA for use in electronic, medical, 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 Baydur 726 IBS system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

Typical Physical Properties of System**

Property	ASTM Test Method (Other)	Unit	Density 40 pcf	45 pcf	50 pcf	55 pcf
Specific Gravity	D 792		0.64	0.72	0.80	0.88
Thickness		in	0.250	0.250	0.250	0.250
Hardness	D 2240	D Scale	66	70	74	81
Mold Shrinkage	(Bayer)	%	0.70–0.90	0.70–0.90	0.70–0.90	0.70–0.90
Tensile Strength at Break	D 638	lb/in²	3,100	3,300	4,600	4,800
Tensile Elongation at Break	D 638	%	8	8	8	8
Flexural Modulus	D 790	lb/in²	160,000	190,000	220,000	240,000
Flexural Strength	D 790	lb/in²	5,600	7,000	8,200	9,000
Charpy Impact	(Bayer)	ft-lb/in²	8	10	12	15
Deflection Temperature Under Load: 66 psi	D 648	°C (°F)	83 (181)	93 (199)	96 (205)	100 (212)
UL94 Flame Class	(UL94)	Rating	V-0/5VA	V-0/5VA	V-0/5VA	V-0/5VA

only at ≥ 0.25"t

* *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.*

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