

# Baydur® GS-772

Polyurethane (MDI)

Covestro - PUR

## Message:

Baydur GS-772 is a solid polyurethane 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. Baydur GS-772 system is used in applications where harsh environmental conditions are encountered, such as pump housings, catch basins, and underground equipment. It is also used as a replacement for cast iron where the application requires weight reduction, improved corrosion resistance, and/or improved abrasion resistance. As with any product, use of the Baydur GS-772 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Features	Good corrosion resistance		
	Good wear resistance		
Uses	Pump parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.708	g/cm³	ASTM D1622
--	1.13	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.0 - 1.2	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	76		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	39.3	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength	60.0	MPa	ASTM D790
Compressive Strength	34.5	MPa	ASTM D695
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	6400	µm	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Unnotched Izod Impact	370	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	98.9	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value		
Thermoset Components			

Component a	Mixing ratio calculated by weight: 100, mixing ratio calculated by capacity: 86
Component B	Mixing ratio by weight: 100, mixing ratio by capacity: 100
Additional Information	
Part A Type: Isocyanate Appearance: Dark brown liquid Specific Gravity @ 25°C: 1.24 Viscosity @ 25°C: 200 mPa*s Flash Point PMCC: 199°C NCO: 31.0 min wt% Part B Type: Polyol Appearance: Black liquid Specific Gravity @ 25°C: 1.05 Viscosity @ 25°C: 1700 mPa*s Flash Point PMCC: 206°C Water: 0.08 wt% Hydroxyl Number: 370 mg KOH/g Material Temperature: 32 to 38°C Mold Temperature: 60 to 71°C Machine Reactive @ 35°C: 16 sec Typical Cure Time: 3 to 6 min Typical Mold Density: 65 to 71 lb/ft <sup>3</sup>	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT