Baydur® 263 IMR (300 g/m² Glass Weight)

Polyurethane (MDI)

Covestro - PUR

Message:

Baydur 263 IMR is a black pigmented, two component, low-density, structural RIM (LD-SRIM) system.
Baydur 263 IMR is used in combination with glass reinforcement to mold automotive composite parts. The composite parts are produced by the open pour reaction injection molding process. The liquid resin mixture 's low viscosity and long cream time allows it to fully permeate the glass reinforcement before reacting to form the solid crosslinked polymer. A variety of different fiberglasses can be used for reinforcement, such as: continuous roving glass mat, chopped strand glass mat, or with glass rovings utilizing a chopped glass fiber RIM machine. The system exhibits excellent flow, quick demold times, and outstanding mechanical properties.
Typical composite applications include interior trim consoles, door trim panels, sunshades, and load floors. The Baydur 263 IMR system combines high strength and thermal properties, while still providing lighter weight than ABS, talc filled polypropylene (PP), or blow molded PP. Composites made with Baydur 263 IMR maintain dimensional stability under high heat and humidity conditions, even at thinner cross sections. Baydur 263 IMR can be poured into a mold to produce composite substrates separately, to be finished later with trim cover stock. Or, it can be poured directly behind trim cover stock, such as vinyl, fabric, or carpet, in a one-step process.
The Baydur 263 IMR system is supplied as two reactive liquid components. Component A is a polymeric diphenlymethane diisocyanate (PMDI), and Component B is a formulated polyether polyol system. As with any product, use of the Baydur 263 IMR system in a given application must be tested (including field-testing, etc.) in advance by the user to determine suitability.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 16% filler by weight		
Features	Low viscosity High strength Good liquidity		
Uses	Application in Automobile Field Car interior equipment		
Appearance	Black		
Processing Method	Reaction Injection Molding (RIM)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.449	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (22°C, 2.50 mm)	20.0	MPa	ASTM D638
Flexural Modulus (22°C, 2.50 mm)	1350	MPa	ASTM D790
Flexural Strength (22°C, 2.50 mm)	32.0	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow (2.50 mm)	2.0E-5	cm/cm/°C	ASTM D696
Thermoset	**Nominal Value**		
Thermoset Components			
Component a	Mixing ratio by weight: 160		
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 min wt%
Part B
Type: Polyol
Appearance: Black liquid
Specific Gravity @ 25°C: 1.05
Viscosity @25°C: 1200 cps
Flash Point PMCC: 145°C
Hydroxyl Number: 550 KOH/g
Material Temperatures: 30 to 40°CMold Temperature: 65 to 75°CCream Time: 20 secGel Time: 45 secTack-Free Time: 55 sec

Recommended distributors for this material

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