

# Baydur® TB 100-30 Thermal Break System

Polyurethane (MDI)

Covestro - PUR

## Message:

The Baydur TB 100-30 thermal break system produces a structural, full density polyurethane used for window applications. 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 that is phase stable.

Baydur TB 100-30 is a fast debridging system, designed to have excellent physical properties while exhibiting minimal wet shrinkage. As with any product, use of the Baydur TB 100-30 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Uses	Doors and Windows		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm³	ASTM D1622
K (wear) Factor	0.13	W/m/K	ASTM C518
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw D, 5 seconds, 6.35mm)	78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 6.35 mm)	39.3	MPa	ASTM D638
Tensile Elongation (Break, 6.35 mm)	30	%	ASTM D638
Flexural Modulus (6.35 mm)	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.35 mm)	81.1	°C	ASTM D648
Thermoset	Nominal Value		
Thermoset Components			
Component a	Mixing ratio by weight: 85, mixing ratio by capacity: 75		
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 cps

Weight per Gallon: 10.35 lbs

Part B

Type: Polyol

Appearance: Black liquid

Specific Gravity @ 25°C: 1.08

Viscosity @25°C: 600 cps

Weight per Gallon: 9.01 lbs

Processing Conditions

Material Temperature: 70 to 95°F

Hand Mix Reactivity, 80°F: 34 sec

Machine Reactivity, 80°F: 29 sec

Debridge Time: 5 to 10 min

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