

Urethane Foam Core

TECHNICAL DATA SHEET

Sentinel's line of interlocking tank stands are composed of a chemically resistant urethane foam core. This foam core is a two component, closed cell, rigid polyurethane foam system specially formulated for pour in place applications. The resin contains polyols made from renewable soy oils, recycled plastic, and the newest generation of blowing agent with zero ozone depleting potential. Sentinel's foam is specially designed for filling voids and applications where superior load bearing properties are required.

Physical Properties			
ASTM D 1622	Density	2.2 – 2.4 lb/ft ³	35.2 – 38.4 Kg/m ³
ASTM C 518	Initial thermal resistance (R-Value @ 1 inch)	6.5 – 6.7 ft ² h ² F/BTU	45 – 46.5 mK/W
ASTM D 1621	Compressive strength	25 – 30 psi	172 – 207 kPa
ASTM D 2126	Dimensional stability (% volume change @ 28 days)		
	70°C, ambient relative humidity 70°C, 75% relative humidity 23°C, ambient relative humidity	In progress In progress In progress	
ASTM D 2842	Water absorption (% absorption)	In progress	
ASTM C 203	Flexural strength	60.6 psi	418 kPa
ASTM C 203	Modulus of elasticity	1,222 psi	8425 kPa
Liquid Components Properties*			
Property	Isocyanate A-PMDI	B 325-6 Resin	
Color	Brown	Amber	
Viscosity @ 77°F (25°C)	180 – 220 cps	400 – 600 cps	
Specific Gravity	1.24	1.13 – 1.17	
Shelf Life of unopened drum properly stored	12 months	6 months	
Storage Temperature	50 – 100°F (10 – 38°C)	50 – 85°F (10 – 29°C)	
Mixing Ratio (volume)	1:1	1:1	

*See Chemical Resistance Chart for more information.