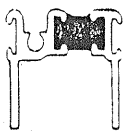
AZON SYSTEMS, INC.



POURED IN PLACE
THERMAL BARRIER

PRODUCT DATA REPORT
AZON SU-207

DESCRIPTION

Azon SU-207 is a proven two-part solid urethane plastic specially formulated to provide the structural strength, and insulating properties required in the manufacture of thermal barrier aluminum extrusions.

It may be characterized as having exceptional moisture resistance during processing. Azon SU-207 resists fracturing during normal fabrication, and also exhibits high bending strength at elevated temperatures.

PHYSICAL CONSTANTS

		13-302-A-ISO	SU-207-B-RESIN
Color		dark brown	dark blue
Specific Gravity		1.240	1.070
Weight/gal	lb/gal	10.31	8.89
Viscosity	mPa.s	175±50	600±100
Mixing ratio by weight	% B/A 1.45	75	100
Mixing ratio by volume		65	100
Mixture density (Metric)	kg/lb	1.136	
Mixture density (English)	lb/gal	9.441	

PERFORMANCE CHARACTERISTICS

Geltime (100 gram sample)	25°C/77°F		1' 50" ± 10"
Hardness (ASTM D 2240)	22°C/72°F	Shore A (5 min)	79±2
	22°C/72°F	Shore D (Ultimate)	75±2
Debridging time	22°C/72°F		2 to 4 hrs

PRODUCT DATA REPORT SU-207

PHYSICAL PROPERTIES

Cured 7 days @ 22°C/72°F		Metric	English	
Tensile strength	ASTM D638	35.0 N/mm^2	5100	psi
Elongation at Break	DIN 53455		20+	%
Modulus of Elasticity	DIN 53455	721 N/mm^2	105,000	psi
Bending strength		39 N/mm^2	5,680	psi
Impact strength	DIN 53455	29.0 KJ/m^2	13.8	ft lb/in^2
Notched Izod	ASTM D256	1.28 J/cm	2.40	ft lb/in
Thermal conductivity		0.14 W/m °K	0.081	BTU/hr ft °F
K-Factor	ASTM D2214		0.98	BTU in/hr ft^2 °F
Heat distort temp @ 66 psi	ASTM D648	55°C	130°F	
Coefficient of linear expansion			9.34×10^{-5}	in/in °F

NOTE:

The test data herein stated are typical values which may be used as guide line in evaluating this material for its intended use. However, because of variations in testing methods, and other conditions, it is not intended that this information be used as specification criteria.

GENERAL

Azon SU-207 is a high strength polymer with thermal barrier properties similar to wood. For best results, pouring and debridging is recommended after painting or anodizing.

Azon SU-207 machines well. It will accept most commonly used techniques, however, drilling, and milling are recommended over punching. Notching into the center of a poured cavity should be avoided, if possible, to lessen the danger of establishing stress points in the plastic fill which can contribute to the potential for fracturing.