

Smooth-On StyroCoat®

Polyurethane
Smooth-On, Inc

Message:

StyroCoat® Plastic is a flame rated (E-84) sprayable polyurethane plastic formulated to economically coat a variety of surfaces. Dispensed through Smooth-On's EZ~Spray®, Jr. cartridge system, the plastic cures in about 2 seconds and can be applied to vertical surfaces without running off. An advantage of the system is that large areas can be covered in a short period of time. Cured plastic is lightweight, flame, impact, and water resistant. It can be sanded for priming and painting. Plastic can also be sprayed into a rubber mold to make fast, impact resistant castings (application of a release agent may be necessary before spraying into the mold). StyroCoat® Plastic is used for theme design / fabrication applications, making movie set environments, making surfaces water resistant and other industrial applications.

General Information	
Features	Flame Retardant
	Good Impact Resistance
	Low to No Water Absorption
Uses	Coating Applications
	Industrial Applications
	Modeling Material
Appearance	Off-White
Processing Method	Casting
	Coating
	Spraying

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D1475
Specific Volume	0.892	cm³/g	ASTM D1475
Viscosity	Variable		ASTM D2393
Flame Spread	60.0		ASTM E84
Smoke Density (6.35 mm)	400		ASTM E84
Mixing Ratio	1A:1B by volume		
Molding Shrinkage - Flow	1.5	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	903	MPa	ASTM D638
Tensile Strength (Break)	21.9	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	1410	MPa	ASTM D790
Flexural Strength	44.1	MPa	ASTM D790
Compressive Modulus	328	MPa	ASTM D695

Compressive Strength	34.5	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	54.4	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	0.033	min	ASTM D2471
Demold Time (23°C)	60	min	ASTM D2471

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