

Econ® 80

Polyurethane
Smooth-On, Inc

Message:

Econ® 80 is an economical Shore 80A urethane rubber suitable for a variety of mold making and industrial applications. It is a lower cost, faster cure alternative to our popular PMC®-780. Physical properties are lower vs. PMC®-780. This is a no odor system that features a 1A:1B mix ratio and a low viscosity for easy mixing and pouring. Working time is about 13 minutes at room temperature, handling time is 6 hours and rubber cures overnight with minimal shrinkage. Econ® 80 is translucent and easily colored with SO-Strong® or Ignite® colorants. Econ® 80 is used to make short run molds for casting concrete and resins, concrete stamping pads, rubber mechanical parts, coating fabrics, pour-in-place gaskets for industrial equipment and burial vaults.

General Information			
Features	Good Colorability		
	Low Shrinkage		
	Low to No Odor		
	Low Viscosity		
Uses	Coating Applications		
	Gaskets		
	Modeling Material		
Appearance	Translucent		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D1475
Specific Volume	0.947	cm³/g	
Mixing Ratio	1A:1B by volume		
Molding Shrinkage - Flow	0.14	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.62	MPa	ASTM D412
Tensile Strength (Break)	6.58	MPa	ASTM D412
Tensile Elongation (Break)	130	%	ASTM D412
Tear Strength ¹	13.5	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	13	min	ASTM D2471
Thermoset Mix Viscosity	1200	cP	ASTM D2393
Demold Time (23°C)	360	min	
Post Cure Time (23°C)	24	hr	
NOTE			
1.	Die C		

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Recommended distributors for this material

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