

# PMC® 790

Polyurethane

Smooth-On, Inc

## Message:

PMC®-790 is a Shore 90A industrial urethane rubber compound designed to meet the most stringent requirements of industrial production applications. It is a very hard rubber that offers superior tear and tensile strength as well as impact and abrasion resistance.

PMC®-790 is suitable for a variety of industrial applications including making concrete stamping pads, mold liners and molds for casting concrete.

PMC®-790 is also good for making ball mill liners, industrial rollers and belts, rubber mechanical parts and for bonding itself or other substrates to metal.

General Information			
Features	Good Abrasion Resistance		
	Good Impact Resistance		
	Good Tear Strength		
	High Tensile Strength		
Uses	Belts/Belt Repair		
	Bonding		
	Liners		
	Metal Bonding		
	Rollers		
Appearance	Clear Amber		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm <sup>3</sup>	ASTM D1475
Specific Volume	0.936	cm <sup>3</sup> /g	
Mixing Ratio	2A:1B by weight		
Molding Shrinkage - Flow	< 0.10	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.41	MPa	ASTM D412
Tensile Strength (Break)	> 13.8	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength <sup>1</sup>	52.5	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	20	min	ASTM D2471
Thermoset Mix Viscosity	3000	cP	ASTM D2393
Demold Time (23°C)	2900	min	
NOTE			
1.	Die C		

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