



International Polyurethane Systems Inc.

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## Material Data Sheet Casting CST121/21

### Product Description:

A 100 % solids, two component, rigid polyurethane based on aromatic MDI. This formulation does not contain any solvents or abrasive fillers. It is especially suitable for casting applications in the 70 shore D hardness range, and has a 2:1 by volume mix-ratio.

### Chemical Properties:

Properties	Unit	Test Method	Typical Values		
			Polyol	Isocyanate	Mixture
Appearance			amber	dark brown	brown
Density	g/cm <sup>3</sup>	ASTM-D 1475	1.03	1.23	1.11
Viscosity @ 22°C (Brookfield DV-2+ @ 20RPM Spindle 3)	cP	ASTM-D 4878	1100	100	900
Flash Point	°C		>200	>200	>200
Mixing Ratio @ 22°C	by weight		100	60	
Mixing Ratio @ 22°C	by volume		100	50	
Potlife @ 22°C approx.	Min.				5

### Physical Properties:

Properties	Unit	Test Method	Typical Values
			Mixture
Shore Hardness	shore D	ASTM-D 2440	65 - 75
Tensile Strength (7 days)	psi	ASTM-D 412	3500
Elongation @ Break (7 days)	%	ASTM-D 412	20
Acid/Base Resistance			Very Good

### Application:

Mix part B well before starting. For use with two component casting applications. Heated molds and post-curing imparts optimum physical properties.

### Storage:

The materials must be protected against humidity and stored at 20 - 25 °C (75 - 77 °F) for optimum shelf life of 6 months.

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