

Epoxies, Ect. 70-2170

Polyurethane

Epoxies, Etc.

Message:

70-2170 is a liquid, low viscosity, urethane resin formulated for casting dimensionally stable parts. Parts cast with 70-2170 have an ABS feel and appearance. 70-2170 is mercury free and does not contain TDI or MbOCA. Its low shrinkage and low viscosity allow for the production of precision parts. This is an ideal prototyping material due to the following properties:

- High Impact Resistance
- Fast Room Temperature Cure
- Dimensionally Stable
- High Durometer
- Excellent Machinability
- Convenient Mix Ratio

General Information		
Features	Fast Cure	
	Good Dimensional Stability	
	High Impact Resistance	
	Low Shrinkage	
	Low Viscosity	
	Machinable	
Uses	Machine/Mechanical Parts	
Appearance	White	
Processing Method	Casting	
Mechanical	Nominal Value	Unit
Flexural Modulus	1390	MPa
Flexural Strength	57.2	MPa
Impact	Nominal Value	Unit
Notched Izod Impact	84	J/m
Thermal	Nominal Value	Unit
Glass Transition Temperature	78.0	°C
Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	500	cP
Demold Time		
25°C	300	min
80°C	120	min
Uncured Properties	Nominal Value	Unit
Color	White	
Mix Ratio by Weight (PBW)		
Part A	2.0	
Part B	1.0	
Mix Ratio by Volume (PBV)		

Part A	2.0	
Part B	1.0	
Density		
25°C ¹	1.10	g/cm ³
25°C ²	1.10	g/cm ³
Viscosity		
25°C ³	0.10	Pa·s
25°C ⁴	1.3	Pa·s
Curing Time		
80°C	16	hr
25°C	1.7E+2	hr
Pot Life ⁵	10	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	70	
Tensile Strength	49.6	MPa
Tensile Elongation at Break	6.0	%
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	100 grams	

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