

Castalloy™ 7126

Thermoset, Unspecified

Hapco Inc.

Message:

CASTALLOY is a series of fast, tough, low viscosity, very low cost, easy to use Liquid Molding Compounds. CASTALLOY has a short cycle time, providing a high volume of parts per day, ideal for both prototype and production runs. Fast turnover and very low cost are two key attributes of CASTALLOY. CASTALLOY has excellent physical properties such as: tensile strength, HDT, modulus of elasticity, etc. Parts can be de-molded in as little as 5 minutes! CASTALLOY can be used with silicone, epoxy, urethane, polyester, or aluminum molds. CASTALLOY is available in a creamy, off white color. Custom Coloring can be achieved by pigmenting CASTALLOY with Hapco's easy to mix color dispersions. CASTALLOY fills the need for low cost, high performance parts in virtually any industry.

General Information			
Features	Fast Molding Cycle		
	Good Mold Release		
	Good Toughness		
	High Tensile Strength		
	Low Viscosity		
Uses	Blending		
Appearance	Colors Available		
	Off-White		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D4669
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D2566
Weight - per cubic inch	17	g	
Gel Time ¹ (25°C)	1.5	min	ASTM D2971
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1550	MPa	ASTM D638
Tensile Strength	33.9	MPa	ASTM D638
Tensile Elongation (Break)	5.6	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength	64.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	15	J/m	ASTM D256
Unnotched Izod Impact	74	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	102	°C	
1.8 MPa, Unannealed	100	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 89, Mix Ratio by Volume: 100		
Thermoset Mix Viscosity (25°C)	120	cP	ASTM D4878
Demold Time (21°C)	10 to 12	min	
Post Cure Time (66°C)	6.0 to 8.0	hr	
NOTE			
1.	100 g		

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