EpoxAcast® 690

Epoxy; Epoxide Smooth-On, Inc

Message:

EpoxAcast® 690 is a clear casting epoxy that is ideal for making clear jewelry/beads or replacement lenses for kit cars and other applications requiring a rigid, clear finished product. EpoxAcast® 690 can be colored with SO-Strong® color tints. EpoxAcast® 690 is also suitable for making clear molds and prototype parts. Castings cure with negligible shrinkage and are very hard and strong. EpoxAcast® 690 is also suitable for encapsulation applications for electronic assemblies where component identification is necessary. Recommended casting thickness maximum; 2 in./5 cm.

General Information			
Features	High Hardness		
	High Rigidity		
	High Strength		
	Low Shrinkage		
Uses	Jewelry		
	Lenses		
Appearance	Clear/Transparent		
Processing Method	Casting		
	Encapsulating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm³	ASTM D1475
Specific Volume	0.903	cm³/g	ASTM D792
Cure Time	1.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3940	MPa	ASTM D638
Tensile Strength (Break)	45.7	MPa	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	75.7	MPa	ASTM D790
Compressive Modulus	629	MPa	ASTM D695
Compressive Strength	66.3	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	46.1	°C	ASTM D648
Optical	Nominal Value		
Refractive Index ¹	1.565		

Thermoset	Nominal Value	Unit	Test Method		
Thermoset Components					
Part A	Mix Ratio by Weight: 100	Mix Ratio by Weight: 100			
Part B	Mix Ratio by Weight: 30	Mix Ratio by Weight: 30			
Pot Life	300	min	ASTM D2471		
Thermoset Mix Viscosity	200	сР	ASTM D2393		
NOTE					
1.	20°C				

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Recommended distributors for this material

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