Ultraclear™ 480

Thermoplastic

Hapco Inc.

Message:

ULTRACLEAR is a series of water clear casting resins with excellent physical properties, such as:
Optically Clear Color
UV Resistant/Non-yellowing
High Heat Distortion (HDT)
High Tensile Strength
Excellent Impact
Low Viscosity

General Information					
Features	Good UV Resistance				
	High Clarity				
	High Heat Resistance				
	High Impact Resistance				
	High Tensile Strength				
	Low Viscosity				
Uses	Lenses				
	Medical Devices				
	Medical/Healthcare Applications				
Appearance	Clear/Transparent				
Forms	Liquid				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.03	g/cm³	ASTM D4669		
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D2566		
Weight - per cubic inch	17	g			
Gel Time ¹ (25°C)	10.0	min	ASTM D2971		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	80		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	2100	MPa	ASTM D638		
Tensile Strength	51.7	MPa	ASTM D638		
Tensile Elongation (Break)	13	%	ASTM D638		
Flexural Modulus	1340	MPa	ASTM D790		
Flexural Strength	66.9	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact	32	J/m	ASTM D256		
Unnotched Izod Impact	200	J/m	ASTM D256		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	73.0	°C	
1.8 MPa, Unannealed	59.0	°C	
Optical	Nominal Value		Test Method
Refractive Index	1.585		ASTM D542
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: 100, Mix Ratio by Volume: 100		
Thermoset Mix Viscosity (25°C)	600	сР	ASTM D4878
Demold Time (21°C)	300 to 480	min	Internal Method
Post Cure Time (70°C)	8.0 to 16	hr	
NOTE			
1.	100 g		

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