

Accura® Xtreme™ White 200

Unspecified

3D Systems

Message:

Ultra tough white plastic to replace CNC Machined polypropylene and ABS articles

Features

Exceptionally tough and durable

Resists breakage and handles challenging functional assemblies

Great for snap fits, assemblies and demanding applications

Ideal for master patterns for vacuum casting

General Information			
Features	Durable		
	Ultra High Toughness		
Uses	Mold Making		
	Molds/Dies/Tools		
	Patterns		
	Prototyping		
Appearance	White		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Density			
-- 1	1.12	g/cm ³	ASTM D570
-- 2	1.18	g/cm ³	
Water Absorption (Equilibrium)	0.38	%	
Viscosity (30°C)	650 to 750	mPa · s	
Critical Exposure	8.30	mJ/cm ²	ASTM D790
Penetration Depth	116.8	µm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78 to 80		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300 to 2630	MPa	ASTM D638
Tensile Strength	45.0 to 50.0	MPa	ASTM D638
Tensile Elongation (Break)	7.0 to 20	%	ASTM D638
Flexural Modulus	2350 to 2550	MPa	ASTM D790
Flexural Strength	75.0 to 79.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	55 to 66	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	47.0	°C	
1.8 MPa, Unannealed	42.0	°C	
Glass Transition Temperature	52.0	°C	DMA
CLTE - Flow			ASTM E831
30 to 50°C	9.5E-5	cm/cm/°C	
70 to 140°C	1.8E-4	cm/cm/°C	
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		

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