

3D Systems Accura® Xtreme White 200 Plastic

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Ultra tough white plastic to replace CNC Machined polypropylene and ABS articles FeaturesExceptionally tough and durableUsed for challenging functional assembliesUsed for snap fit assembliesUsed for master patterns for vacuum castingAll information provided by 3D Systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3D-Systems-Accura-Xtreme-White-200-Plastic.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in³	Liquid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.18 g/cc	0.0426 lb/in³	Solid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	650 - 750 cP	650 - 750 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78 - 80	78 - 80	
Tensile Strength	45.0 - 50.0 MPa	6530 - 7250 psi	ASTM D638
Elongation at Break	7 - 20 %	7 - 20 %	ASTM D638
Tensile Modulus	2.30 - 2.60 GPa	334 - 377 ksi	ASTM D638
Flexural Strength	75.0 - 79.0 MPa	10900 - 11500 psi	ASTM D790
Flexural Modulus	1.52 - 2.07 GPa	220 - 300 ksi	ASTM D790
Izod Impact, Notched	0.550 - 0.600 J/cm	1.03 - 1.12 ft-lb/in	ASTM D256
Penetration	4.6	4.6	mils penetration depth

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 µm/m-°C	52.8 µin/in-°F	
	@Temperature 30.0 - 50.0 °C	@Temperature 86.0 - 122 °F	
	180 µm/m-°C	100 µin/in-°F	
	@Temperature 70.0 - 140 °C	@Temperature 158 - 284 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	47.0 °C	117 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	ASTM D648
Glass Transition Temp, Tg	52.0 °C	126 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	White	
Critical Exposure (mJ/cm ²)	8.3	

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