

Stratasys® ABS-M30

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , ABS Polymer

Material Notes:

ABS-M30 is 25-70 percent stronger than standard Stratasys ABS and is an ideal material for conceptual prototyping, design verification, and direct digital manufacturing. ABS-M30 has greater tensile, impact, and flexural strength than standard ABS. Layer bonding is significantly stronger than that of standard ABS, for a more durable part. This results in more realistic functional tests and higher quality parts for end use. When combined with a Stratasys FDM mcâ„¢ series system, ABS-M30 gives you Real Partsâ„¢ that are stronger, smoother, and with better feature detail. Information provided by Stratasys®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stratasys-ABS-M30.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109.5	109.5	ASTM D785
Tensile Strength, Ultimate	36.0 MPa	5220 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
	52 %	52 %	Flexural; ASTM D790
Tensile Modulus	2.413 GPa	350.0 ksi	ASTM D638
Flexural Strength	61.0 MPa	8850 psi	Method 1, .05"/min; ASTM D790
Flexural Modulus	2.317 GPa	336.1 ksi	ASTM D790
Izod Impact, Notched	1.39 J/cm @Temperature 23.0 Â°C	2.60 ft-lb/in @Temperature 73.4 Â°F	Method A; ASTM D256
Izod Impact, Unnotched	2.83 J/cm @Temperature 23.0 Â°C	5.30 ft-lb/in @Temperature 73.4 Â°F	Method A; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	88.2 Âµm/m-Â°C @Temperature 20.0 Â°C	49.0 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM E831
CTE, linear, Transverse to Flow	84.6 Âµm/m-Â°C @Temperature 20.0	47.0 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM E831

Thermal Properties	^{°C} Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 ^{°C} @Thickness 3.17 mm	205 ^{°F} @Thickness 0.125 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 ^{°C} @Thickness 3.17 mm	180 ^{°F} @Thickness 0.125 in	unannealed; ASTM D648
Vicat Softening Point	99.0 ^{°C}	210 ^{°F}	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	108 ^{°C}	226 ^{°F}	DSC (SSYS)
Flammability, UL94	HB @Thickness 0.850 mm	HB @Thickness 0.0335 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60112

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