

Proto3000 Objet Digital Materials™ RGD5160-DM ABS-like Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Objet ABS-like Digital Material made of Object RGD515 & Objet RGD535 Digital Materials are made up of two Objet materials. The two materials are combined in specific concentrations and structures, to provide the desired mechanical properties and to resemble the product's target materials. Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-Objet-Digital-Materials-RGD5160-DM-ABS-like-Prototyping-Polymer.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	67 - 69	67 - 69	
Hardness, Shore D	85 - 87	85 - 87	
Tensile Strength at Break	55.0 - 60.0 MPa	7980 - 8700 psi	ASTM D638-03
Elongation at Break	25 - 40 %	25 - 40 %	ASTM D638-05
Modulus of Elasticity	2.60 - 3.00 GPa	377 - 435 ksi	ASTM D638-04
Flexural Strength	65.0 - 75.0 MPa	9430 - 10900 psi	ASTM D790-03
Flexural Modulus	1.70 - 2.20 GPa	247 - 319 ksi	ASTM D790-04
Izod Impact, Notched	0.650 - 0.800 J/cm	1.22 - 1.50 ft-lb/in	ASTM D256-06

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	58.0 - 68.0 °C	136 - 154 °F	ASTM D648-06
	82.0 - 90.0 °C	180 - 194 °F	after thermal post treatment procedure A; ASTM D648-06
	92.0 - 95.0 °C	198 - 203 °F	after thermal post treatment procedure B; ASTM D648-06
Deflection Temperature at 1.8 MPa (264 psi)	51.0 - 55.0 °C	124 - 131 °F	ASTM D648-07
Glass Transition Temp, Tg	47.0 - 53.0 °C	117 - 127 °F	DMA, E

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