

ALM TPE-210-S Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

A thermoplastic elastomer used to produce parts with "rubber like" qualities. TPE 210-S exhibits good feature definition and infiltration with polyurethane will impart even higher toughness and abrasion resistance. TPE 210-S processes at a much lower temperature (~ 80 C) when compared to other commercially available flexible materials. TPE 210-S is 100% recyclable. Information provided by Advanced Laser Materials (ALM).

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALM-TPE-210-S-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.370 g/cc	0.0134 lb/in ³	ASTM D1895
Density	1.03 g/cc	0.0372 lb/in ³	Sintered; ASTM D792
Particle Size	20 - 130 µm	20 - 130 µm	D10-D90
	85 µm	85 µm	D50
Melt Flow	16 g/10 min @Load 5.00 kg, Temperature 235 °C	16 g/10 min @Load 11.0 lb, Temperature 455 °F	3 min; ASTM D1238

Mechanical Properties	Metric	English	Comments
Elongation at Break	110 %	110 %	uninfiltrated; ASTM D638
Tensile Modulus	0.00800 GPa	1.16 ksi	ASTM D638
Flexural Modulus	0.00300 GPa @Temperature 100 °C	0.435 ksi @Temperature 212 °F	ASTM D790
	0.0130 GPa @Temperature 23.0 °C	1.89 ksi @Temperature 73.4 °F	ASTM D790
	0.0230 GPa @Temperature -40.0 °C	3.34 ksi @Temperature -40.0 °F	ASTM D790
Tear Strength	5.00 kN/m @Temperature 100 °C	28.5 pli @Temperature 212 °F	Initial, Die C; ASTM D624
	6.00 kN/m @Temperature 23.0 °C	34.2 pli @Temperature 73.4 °F	Initial, Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	353	353	H-18 Wheel; ASTM D4060

Thermal Properties	Metric	English	Comments
Melting Point	178 °C	352 °F	ASTM D3418

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+13 ohm-cm	1.50e+13 ohm-cm	ASTM D257
Surface Resistance	1.90e+13 ohm	1.90e+13 ohm	ASTM D257
Dielectric Constant	2.9	2.9	

Descriptive Properties	Value	Comments
Shore Hardness (scale not noted)	40	uninfiltrated, ASTM D2240

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