

Overview of materials for Silicone Polyurethane, Polycarbonate Based

Category : Polymer , Thermoplastic , Polyurethane, TP , Silicone Polyurethane, Polycarbonate Based

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Silicone Polyurethane, Polycarbonate Based". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Overview-of-materials-for-Silicone-Polyurethane-Polycarbonate-Based.php

Physical Properties	Metric	English	Comments
Density	1.14 - 1.20 g/cc	0.0412 - 0.0434 lb/in ³	Average value: 1.17 g/cc Grade Count:6
Melt Flow	17.0 - 52.0 g/10 min	17.0 - 52.0 g/10 min	Average value: 28.5 g/10 min Grade Count:4

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80.0 - 90.0	80.0 - 90.0	Average value: 88.0 Grade Count:5
Tensile Strength, Ultimate	29.6 - 54.2 MPa	4290 - 7850 psi	Average value: 40.2 MPa Grade Count:6
Tensile Strength, Yield	4.85 - 37.9 MPa	704 - 5490 psi	Average value: 14.8 MPa Grade Count:6
Elongation at Break	344 - 530 %	344 - 530 %	Average value: 438 % Grade Count:6
Flexural Modulus	0.0395 - 0.0414 GPa	5.73 - 6.00 ksi	Average value: 0.0405 GPa Grade Count:3
Tear Strength	82.4 - 94.7 kN/m	470 - 540 pli	Average value: 88.2 kN/m Grade Count:3
Taber Abrasion, mg/1000 Cycles	20.0 - 144	20.0 - 144	Average value: 73.7 Grade Count:3
Compression Set	15.0 - 33.0 %	15.0 - 33.0 %	Average value: 24.7 % Grade Count:3

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-7.00 - 5.00 °C	19.4 - 41.0 °F	Average value: -2.00 °C Grade Count:3

Processing Properties	Metric	English	Comments
Processing Temperature	185 - 210 °C	365 - 410 °F	Average value: 198 °C Grade Count:6

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