

Denka LCS Z1050 Thermoplastic Elastomer, Extrusion grade (general)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

"DENKA LCS" combines low hardness with a rubber-like texture, having a low permanent compressive distortion/permanent elongation, and is a thermoplastic elastomer that closely resembles vulcanized rubber. It also offers advantages such as a high coefficient of friction, ease of lowering electrical resistance, and good energy-absorbing performance. ApplicationsFor use in automotive components such as weather strips, as well as architectural gaskets, electrical components, etc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Denka-LCS-Z1050-Thermoplastic-Elastomer-Extrusion-grade-general.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	JIS-Z-8807
Evaporation Loss	7.0 %	7.0 %	JIS-A-5756

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	JIS-K-6301
Tensile Strength at Break	8.829 MPa	1281 psi	JIS-K-6723
Elongation at Break	350 %	350 %	JIS-K-6723
100% Modulus	0.001962 GPa	0.2846 ksi	JIS-K-6723
Tear Strength	25.5 kN/m	146 pli	kg/cm ² ; JIS-K-6301
Compression Set	39 %	39 %	70°C, 22hrs; JIS-K-6301
	49 %	49 %	100°C, 70hrs; JIS-K-6301

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	JIS-K-6723

Descriptive Properties	Value	Comments
De Mattia flexing crack occurrence, 10k times	40 or more	
Heating: Retention Rate of Elongation, %	100	100°C x 120 hrs
Heating: Retention Rate of Tensile Strength, %	110	100°C x 120 hrs
Oil Resistance: Retention of Tensile Strength, %	110	70°C x 4hrs; JIS-K-6723
Oil Resistance: Retention Rate of Elongation, %	100	70°C x 4hrs; JIS-K-6723

Permanent Set, %, 100% Descriptive Properties	Value	Comments
Permanent Set, %, 200%	12	

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