

## Denka LCS Z1070 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. Applications For 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-Z1070-Thermoplastic-Elastomer-Extrusion-grade-general.php](http://www.lookpolymers.com/polymer_Denka-LCS-Z1070-Thermoplastic-Elastomer-Extrusion-grade-general.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	JIS-Z-8807
Evaporation Loss	5.0 %	5.0 %	JIS-A-5756

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	JIS-K-6301
Tensile Strength at Break	12.753 MPa	1849.7 psi	JIS-K-6723
Elongation at Break	330 %	330 %	JIS-K-6723
100% Modulus	0.0044145 GPa	0.64028 ksi	JIS-K-6723
Tear Strength	37.3 kN/m	213 pli	kg/cm <sup>2</sup> ; JIS-K-6301
Compression Set	35 %	35 %	70°C, 22hrs; JIS-K-6301
	48 %	48 %	100°C, 70hrs; JIS-K-6301

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-40.0 °C	-40.0 °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, %	100	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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