

Dow 959S Linear Low Density Polyethylene (LDPE)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

DOW Polyethylene 959S is a medium molecular weight distribution homopolymer. This resin has good process-ability over a wide range of molding conditions. Typical applications include lids. It complies with U.S. FDA 21 CFR 177.1520 (c) 2.1. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-959S-Linear-Low-Density-Polyethylene-LDPE.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ASTM D792
ESCR 100% Igepal®	<= 1.0 hour @Temperature 50.0 °C	<= 1.0 hour @Temperature 122 °F	F _{>50</sub>; Molded and tested in accordance with ASTM D4976; ASTM D1693}
Melt Index of Compound	55 g/10 min @Load 2.16 kg, Temperature 190 °C	55 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48	48	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	6.21 MPa	900 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	58 %	58 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	0.331 GPa	48.0 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	118 kJ/m ²	56.0 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	110 °C	230 °F	Dow Method (DSC)
Crystallization Temperature	100 °C	212 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	46.1 °C	115 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	90.0 °C	194 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-26.8 °C	-1.68 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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