# Dow 722 Linear Low Density Polyethylene (LDPE)

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

**Material Notes:**

DOW Polyethylene 722 is a broad molecular weight distribution homopolymer designed to offer good impact strength and rack resistance, with excellent flexibility. Typical applications include caps/closures. 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-722-Linear-Low-Density-Polyethylene-LDPE.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 0.918 g/cc | 0.0332 lb/in³ | ASTM D792 |
| ESCR 100% Igepal® | <= 1.0 hour<br>@Temperature 50.0 °C | <= 1.0 hour<br>@Temperature 122 °F | F<sub>50</sub>; Molded and tested in accordance with ASTM D4976; ASTM D1693 |
| Melt Index of Compound | 8.0 g/10 min<br>@Load 2.16 kg, Temperature 190 °C | 8.0 g/10 min<br>@Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Hardness, Shore D | 43 | 43 | Molded and tested in accordance with ASTM D4976; ASTM D2240 |
| Tensile Strength at Break | 9.65 MPa | 1400 psi | Molded and tested in accordance with ASTM D4976; ASTM D638 |
| Tensile Strength, Yield | 8.27 MPa | 1200 psi | Molded and tested in accordance with ASTM D4976; ASTM D638 |
| Elongation at Break | 500 % | 500 % | Molded and tested in accordance with ASTM D4976; ASTM D638 |
| Elongation at Yield | 4.0 % | 4.0 % | Molded and tested in accordance with ASTM D4976; ASTM D638 |
| Flexural Modulus | 0.234 GPa | 34.0 ksi | 2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B |
| Tensile Impact Strength | 273 kJ/m² | 130 ft-lb/in² | Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Melting Point | 107 °C | 224 °F | Dow Method (DSC) |
| Crystallization Temperature | 95.0 °C | 203 °F | Dow Method (DSC) |
| Deflection Temperature at 0.46 MPa (66 psi) | 37.2 °C | 99.0 °F | Molded and tested in accordance with ASTM D4976; ASTM D648 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Brittleness Temperature | -60.0 °C | -76.0 °F | Molded and tested in accordance with ASTM D4976; ASTM D746 |

## Contact Songhan Plastic Technology Co.,Ltd.

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