

SABIC M500026 Linear Low Density Polyethylene for Injection Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Injection Molded

Material Notes:

Product Description: M500026 is a Linear Low Density Polyethylene grade with a narrow molecular weight distribution suitable for injection molding applications. It has been designed to give excellent flow properties with better low temperature toughness, stress crack resistance and gloss. **Typical Applications:** M500026 is recommended for lids for closures and containers and deep draw housewares products, automotive parts, etc. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-M500026-Linear-Low-Density-Polyethylene-for-Injection-Molding.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|--------------------------|
| Density | 0.926 g/cc | 0.0335 lb/in ³ | load density; ASTM D1505 |
| ESCR 100% Igepal® | 6.0 hour | 6.0 hour | F50; ASTM D1693B |
| ESCR 10% Igepal® | 3.0 hour | 3.0 hour | F50; ASTM D1693B |
| Melt Flow | 50 g/10 min @Load 2.16 kg, Temperature 190 °C | 50 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|---------------|------------|
| Hardness, Shore D | 50 | 50 | ASTM D2240 |
| Tensile Strength at Break | 8.00 MPa | 1160 psi | ASTM D638 |
| Tensile Strength, Yield | 10.0 MPa | 1450 psi | ASTM D638 |
| Elongation at Break | >= 350 % | >= 350 % | ASTM D638 |
| Flexural Strength | 8.00 MPa | 1160 psi | ASTM D790 |
| Flexural Modulus | 0.200 GPa | 29.0 ksi | ASTM D790 |
| 1% Secant Modulus | 240 MPa | 34800 psi | ASTM D638 |
| Izod Impact, Notched | 5.00 J/cm | 9.37 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------|------------|------------|
| Vicat Softening Point | 88.0 °C | 190 °F | ASTM D1525 |
| Brittleness Temperature | <= -75.0 °C | <= -103 °F | ASTM D746 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Mold Temperature Processing Properties | 15.0 - 60.0 °C Metric | 59.0 - 140 °F English | Comments |
|---|--------------------------|--------------------------|----------|
| Injection Pressure | 60.0 - 100 MPa | 8700 - 14500 psi | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China