

DOW™ VLDPE DFDB-1085 NT

Very Low Density Polyethylene Resin

The Dow Chemical Company

Message:

High elasticity with good elastic recovery
Excellent impact strength in blends with polypropylene and polyethylene
Soft touch blend
Complies with EU, No 10/2011
Complies with U.S. FDA 21 CFR 175.105
DFDB-1085 NT Very Low Density Polyethylene (VLDPE) Resin is produced via gas phase polymerization from Dow. This is an ethylene-butene copolymer exhibiting high flexibility and elasticity. It can be utilized in monolayer and coextruded films and in blends with other polyolefins to enhance toughness of the structure.

| General Information | | | |
|------------------------------|--------------------|-------------------|-----------------|
| Agency Ratings | FDA 21 CFR 175.105 | | |
| | Europe No 10/2011 | | |
| Forms | Particle | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.884 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 190°C/2.16 kg | 0.75 | g/10 min | ASTM D1238 |
| 190°C/21.6 kg | 26 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shaw A, 1 sec | 79 | | ASTM D2240 |
| Shaw A, 5 seconds | 79 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 4.14 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 380 | % | ASTM D638 |
| Flexural Modulus - 2% Secant | 31.0 | MPa | ASTM D790A |
| Thermal | Nominal Value | Unit | Test Method |
| Glass Transition Temperature | -52.2 | °C | Internal method |
| Melting Temperature (DSC) | 114 | °C | Internal method |
| Additional Information | | | |

根据 ASTM D 4976 进行基板模制和测试。

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