



DOW™ VLDPE DFDB-1085 NT

Very Low Density Polyethylene Resin

Overview

- 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.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.884 g/cm ³	0.884 g/cm ³	ASTM D792
Melt Index			ASTM D1238
190°C/2.16 kg	0.75 g/10 min	0.75 g/10 min	
190°C/21.6 kg	26 g/10 min	26 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	600 psi	4.14 MPa	ASTM D638
Tensile Elongation (Break)	380 %	380 %	ASTM D638
Flexural Modulus - 2% Secant	4500 psi	31.0 MPa	ASTM D790A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec	79	79	
Shore A, 5 sec	79	79	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-62.0 °F	-52.2 °C	Dow Method
Melting Temperature (DSC)	237 °F	114 °C	Dow Method
Additional Information	Plaque molded and tested in accordance with ASTM D4976.		

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

