



Technical Data Sheet

DOW™ LDPE 740E REN Low Density Polyethylene Resin

Overview

DOW™ LDPE 740E REN Low Density Polyethylene Resin has been designed with a specific focus on the compounding industry. DOW™ LDPE 740E REN Low Density Polyethylene Resin displays good processability, ease of blending, and a controlled, low gel level. The resin is therefore suitable for the production of high quality masterbatches.

Main Characteristics:

- Designed for compounding
- Good blendability
- Good processability
- Consistently low gel level

Complies with:

- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520(c)2.2
- U.S. FDA-DMF
- ISCC PLUS certification for bio-circular plastics

Consult the regulations for complete details.

Sustainability Attribute:



Physical Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method ¹
Density	0.920	g/cm ³	0.920	g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	7.5	g/10 min	7.5	g/10 min	ASTM D1238
Mechanical					
Tensile Stress					ISO 527-2
Yield, Compression Molded	1310	psi	9.00	MPa	
Break, Compression Molded	1310	psi	9.00	MPa	
Tensile Strain (Break, Compression Molded)	95	%	95	%	ISO 527-2
Flexural Modulus (Compression Molded)	40600	psi	280	MPa	ISO 178

1. ASTM: American Society for Testing and Materials
ISO: International Standardization Organization

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



Physical Properties (Cont.)

Impact	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method
Tensile Impact Strength (Compression Molded)	119	ft-lb/in ²	250	kJ/m ²	ISO 8256
Hardness					
Shore Hardness (Shore D, Compression Molded)	50		50		ISO 868
Thermal					
Vicat Softening Temperature	199	°F	93.0	°C	ASTM D1525 ²
Melting Temperature (DSC)	228	°F	109	°C	Dow Method

2. Rate B (120°C/h)

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