

DOW™ LLDPE DNDB-7441 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Comply with industry standards
ASTM D 3350: step PE123110A
Comply with the requirements of FDA Regulation 21 CFR 177.1520 (c) 3.1a
EU, No 10/2011
Please check the regulations for complete details.

The preparation of DOW DNDB-7441 NT 7 linear low density polyethylene resin uses UNIPOL™ process technology. This product is used in the field of hoses and pipe fittings, and is also used in the processing of sealing gaskets, spiral wound hoses and bellows. The product has good drafting performance, the melt is not easy to break, it also has low temperature toughness, uniform matte surface effect, and excellent deflection life. Compared with conventional high-pressure, low-density polyethylene resin with the same density, its modulus (stiffness) is 50% higher. This product is especially suitable for profile extrusion. This processing requires stress cracking resistance, flexural wear resistance and easy extrusion processing. It can also be used as a modifier and blended with soft copolymers, such as ethylene-ethyl acetate (EVA) and ethylene-ethyl acrylate (EAA), to improve rigidity.

General Information			
Agency Ratings	ASTM D 3350 PE123110A		
	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.60	g/10 min	ASTM D1238
190°C/21.6 kg	44	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ² (F0)	> 500	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ³ (Shore D)	44		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁴			ASTM D638
Yield	11.0	MPa	ASTM D638
Fracture	15.5	MPa	ASTM D638
Tensile Elongation ⁵ (Break)	800	%	ASTM D638
Flexural Modulus	310	MPa	ASTM D790B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ⁶	< -100	°C	ASTM D746A
Extrusion	Nominal Value	Unit	
Melt Temperature	196 - 221	°C	
Extrusion instructions			

制造条件:
螺杆类型:所有标准的商用挤出设备.
熔体温度范围:385-430 °F (195-220 °C)

NOTE

1.	Natural resin
2.	Prepare the compression molded fitting according to ASTM D 1928 procedure C. Attributes will vary with molding conditions and aging time.
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4.	Prepare the compression molded fitting according to ASTM D 1928 procedure C. Attributes will vary with molding conditions and aging time.
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