

# FLEXOMER™ DFDA-1137 NT 7

Very Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

FLEXOMER™ DFDA-1137 NT 7 Very Low Density Polyethylene (VLDPE) Resin is an ethylene copolymer intended for use in molding and extrusion applications where high flexibility is desired. It is especially useful for flexible hose and tube applications as well as for blow molding small, squeezable bottles. It has a high molecular weight and a relatively narrow molecular weight distribution and exhibits excellent low temperature toughness and outstanding flex life characteristics. It is also recommended as a blending component to modify and improve the physical properties of high pressure and linear low density polyethylene resins.

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.1a

EU, No 10/2011

Canadian HPFB No Objection

Consult the regulations for complete details.

General Information			
Additive	Processing aid		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F0)	> 500	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	94		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant	117	MPa	ASTM D638
Tensile Strength (Break)	19.3	MPa	ASTM D638
Tensile Elongation (Break)	900	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -100	°C	ASTM D746A
Vicat Softening Temperature	86.1	°C	ASTM D1525
Melting Temperature (DSC)	118	°C	Internal method
Additional Information			
根据 ASTM D 1928 程序 C 准备压缩模塑配件.属性将随着模塑条件和老化时间的变化而变化.			
Extrusion	Nominal Value	Unit	
Melt Temperature	149 - 177	°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:300-350°F (149-177 °C)

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