

DOW™ MDPE NG 7525

Medium Density Polyethylene Resin

The Dow Chemical Company

Message:

MDPE NG 7525 is a Medium Density Polyethylene Resin produced in the UNIPOL™ Process. This resin is recommended to be used in thin-wall micro-irrigation tape application and profile extrusion application. Resin exhibits good draw down characteristics producing tapes with a reliable balance of extrusion and stiffness.

It can also be used as a component in mixtures with low density polyethylene resins and linear low density polyethylene resins, to modify and improve the mechanical properties. Outdoor applications require the addition of UV stabilizer to maintain the excellent properties over extended periods of UV exposure.

Main Characteristics:

High performance in processability

Excellent mechanical properties

High ESCR

Excellent seal property in drippers

Complies with Regulation U.S. FDA 21 CFR 177.1520 (c) 3.2a

Complies with EU, No 10/2011

Consult the regulation for complete details

General Information			
Agency Ratings		EU No 10/2011	
		FDA 21 CFR 177.1520(c) 3.2a	
Forms		Pellets	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.939	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	22	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	> 2000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, Compression Molded	20.0	MPa	
Break, Compression Molded	26.0	MPa	
Tensile Elongation ² (Break, Compression Molded)	> 700	%	ASTM D638
Flexural Modulus - 2% Secant ³ (Compression Molded)	500	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ASTM D1525
Oxidation Induction Time (200°C)	> 20	min	ASTM D3895
NOTE			
		Plaques prepared according to standard ASTM D 1928 Procedure C.	
1.			

2.	Plaques prepared according to standard ASTM D 1928 Procedure C.
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