

FINGERPRINT™ DFDD-7525 NT

Polyethylene Resin
The Dow Chemical Company

Message:

FINGERPRINT™ DFDD-7525 NT is a medium density polyethylene resin designed for use in thin-wall microirrigation tape applications. This product was designed to offer good profile extrusion processing characteristics coupled with great application performance attributes such as toughness, burst strength and environmental stress crack resistance.

Main Characteristics:
High tensile strength
High burst strength
High environmental stress crack resistance
Industrial Standards Compliance:
ASTM D 3350: cell classification PE234510A

General Information			
Agency Ratings	ASTM D 3350 PE234510A		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D972
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	> 0.15	g/10 min	ASTM D1238
190°C/21.6 kg	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (F0)	> 2000	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ² (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³			ASTM D638
Yield	26.2	MPa	ASTM D638
Fracture	30.0	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	> 800	%	ASTM D638
Flexural Modulus ⁵	689	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ⁶	< -100	°C	ASTM D746A
Vicat Softening Temperature	116	°C	ASTM D1525
Melting Temperature (DSC)	125	°C	Internal method
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 250	°C	
NOTE			

1.

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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