

# FINGERPRINT™ DFDC-7525 NT

Polyethylene Resin

The Dow Chemical Company

## Message:

FINGERPRINT™DFDC-7525 NT is a medium density polyethylene resin, and its preparation process uses Unipol™Processing technology. The resin is applied to thin-wall micro-irrigation tape and profile extrusion processing. DFDC-7525 NT has good drafting characteristics, which makes the processed strip achieve a reliable balance between convenient extrusion and toughness.

this product can also be used as a blending component for the modification of high pressure, very low density, linear low density or high density polyethylene resin to improve its physical properties. Outdoor applications need to add UV stabilizers to maintain excellent performance under long-term UV exposure. Adding 6.5% Dow DFNF-0092 carbon black color masterbatch can make the product have certain UV resistance.

Main features:

High tensile properties

high elongation

Excellent blasting strength

slip agent content: none

opening agent content: none

industry standard

ASTM D 3350: step PE234510A

General Information			
Agency Ratings	ASTM D 3350 PE234510A		
Forms	Particle		
Processing Method	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.939	g/cm <sup>3</sup>	ASTM D792
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 <sup>1</sup> (F0)	> 2000	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>2</sup> (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>3</sup>			ASTM D638
Yield	26.2	MPa	ASTM D638
Fracture	30.0	MPa	ASTM D638
Tensile Elongation <sup>4</sup> (Break)	> 800	%	ASTM D638
Flexural Modulus <sup>5</sup>	689	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature <sup>6</sup>	< -100	°C	ASTM D746A
Vicat Softening Temperature	116	°C	ASTM D1525
Melting Temperature (DSC)	125	°C	Internal method
Extrusion	Nominal Value	Unit	
Melt Temperature	221 - 249	°C	
Extrusion instructions			

吹塑薄膜的制造条件:  
螺杆类型:所有标准的商用挤出设备.  
熔体温度范围:430 - 480 °F (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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