

DOW™ HDPE DGDA-2485 NT

The Dow Chemical Company - High Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

Industrial Standards Compliance:

- ASTM D 3350: cell classification PE445520A (See NOTES 1)
- · American Association of State Highway and Transportation Officials (AASHTO) M294/MP7 (See NOTES 2)

DOW DGDA-2485 NT High Density Polyethylene resin is produced using UNIPOL™ II process technology and meets the needs of a wide variety of end uses including profile extrusion applications such as corrugated pipe. It combines excellent ESCR/NCLS with superior toughness and processability.

NOTES:

- (1) The first five numbers of the cell classification are based on natural resin. The last number and letter are based on black resin (natural resin plus 6.5% DFNF-0092).
- (2) Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 (6.5%).

General				
Material Status	Commercial: Active			
Availability	Asia Pacific	North America		
Additive	Antiblock: No	Processing Aid: No Slip: No		
Agency Ratings	 AASHTO M294/MP 7 	• ASTM D3350 PE346460A		
Forms	• Pellets			
Processing Method	Profile Extrusion			

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	0.953		ASTM D792	
Melt Mass-Flow Rate			ASTM D1238	
190°C/2.16 kg	0.060	g/10 min		
190°C/21.6 kg	9.5	g/10 min		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Yield)	3800	psi	ASTM D638	
Tensile Strength (Break)	4790	psi	ASTM D638	
Tensile Elongation (Break)	> 690	%	ASTM D638	
Flexural Modulus - 2% Secant ²	135000	psi	ASTM D790B	
Thermal	Nominal Value	Unit	Test Method	
Brittleness Temperature	< -103	°F	ASTM D746	
Melting Temperature (DSC)	268	°F	Internal Method	
Additional Information	Nominal Value	Unit	Test Method	
NCLS	> 5000	hr	ASTM F2136	
Compression molded parts prepared according to ASTM [1928 Procedure C. Properties will vary wit	th changes in	molding conditions and aging	

Processing Information		
Extrusion	Nominal Value Unit	
Melt Temperature	380 to 440 °F	

our control, and we cannot and will not take responsibility for the information or content



time.

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Extrusion Notes

Fabrication Conditions:

- Screw Type: High Quality HDPE (preferably barrier for complete melting)
- Melt Temperature Range: 380-440 °F (193-225 °C)

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method I (3 point load)

