

CONTINUUM™ DGDD-2480 NT

Bimodal Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DGDD-2480 NT Bimodal Polyethylene Resin is produced using UNIPOL™ II process technology. This product may be utilized for pipe applications where long term hydrostatic strength combined with outstanding resistance to slow crack growth and rapid crack propagation are desired. Suitable applications include natural gas distribution pipes, industrial piping, mining, sewage, and municipal water service lines.

Industrial Standards Compliance

ASTM D 3350: cell classification

Natural - PE445574A

Black - PE445574C (See NOTES 1)

Plastics Pipe Institute (PPI): TR-4

Black Pipe - CONTINUUM DGDD-2480 BK (See NOTES 1)

ASTM PE4710 pipe grade - 1600psi HDB and 1000psi HDS @ 73°F, and 1000psi HDB @ 140°F

NSF International: Standard 14 and 61

Black Pipe - DGDD-2480 BK 3408 (See NOTES 1)

Consult the regulations for complete details.

NOTES:

(1) Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 (6.5%).

General Information			
Agency Ratings	ASTM D 3350 PE445574A		
	ASTM D 3350 PE445574C		
	ASTM PE4710		
	NSF 14		
	NSF 61		
	PPI TR-4		
Forms	Pellets		
Processing Method	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Density			ASTM D1505
Natural	0.949	g/cm ³	
Black ¹	0.959	g/cm ³	
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.080	g/10 min	
190°C/21.6 kg	8.5	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	> 24.1	MPa	ASTM D638
Tensile Elongation ³ (Break)	> 500	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790B
Resistance to Rapid Crack Propagation, Pc ⁴	> 46.0	bar	ISO 13477
Resistance to Rapid Crack Propagation, Tc ⁵	< -17	°C	ISO 13477

Slow Crack Growth PENT - @ 2.4 MPa ⁶ (80°C)	> 5000	hr	ASTM F1473
Thermal Stability	> 220	°C	ASTM D3350
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁷ (23°C)	490	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ⁸	< -75.0	°C	ASTM D746A
NOTE			
1.	Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 (6.5%).		
2.	Compression molded parts prepared according to ASTM D 4703 Procedure C unless otherwise noted in the test method. Properties will vary with changes in molding conditions and aging time.		
3.	Compression molded parts prepared according to ASTM D 4703 Procedure C unless otherwise noted in the test method. Properties will vary with changes in molding conditions and aging time.		
4.	Pipe diameter of 10 inch IPS (25.4 cm) and Standard Diameter Ratio (SDR) 11.		
5.	Pipe diameter of 10 inch IPS (25.4 cm) and Standard Diameter Ratio (SDR) 11.		
6.	Compression molded parts prepared according to ASTM D 4703 Procedure C unless otherwise noted in the test method. Properties will vary with changes in molding conditions and aging time.		
7.	Compression molded parts prepared according to ASTM D 4703, Procedure C. Properties will vary with changes in molding conditions and aging time.		
8.	Compression molded parts prepared according to ASTM D 4703, Procedure C. Properties will vary with changes in molding conditions and aging time.		

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