

CONTINUUM™ DGDC-2480 NT

Bimodal Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DGDC-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

Natural Pipe - CONTINUUM™ DGDC-2480 NT

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

Black Pipe - CONTINUUM DGDC-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

Natural Pipe - DGDC-2480 NT

Black Pipe - DGDC-2480 BK (See NOTES 1)

Consult the regulations for complete details.

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).

General Information			
Additive	Processing Aid		
Agency Ratings	ASTM D 3350 PE345564C		
	ASTM D 3350 PE445574A		
	ASTM PE4710		
	NSF 14		
	NSF 61		
	PPI TR-4		
Forms	Pellets		
Processing Method	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
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			
Calculated, Full Scale : 0°C ⁴	> 46.0	bar	ISO 13478
S-4 : 0°C ⁵	> 12.0	bar	ISO 13477
Resistance to Rapid Crack Propagation, Tc			
- S-4 @ 10 bar ⁶	< -17	°C	ISO 13477
Slow Crack Growth PENT ⁷	> 5000	hr	ASTM F1473
Thermal Stability	> 220	°C	ASTM D3350
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁸ (23°C)	490	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ⁹	< -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.	Calculated value, determined by the equation in ISO 4437 based on S-4 test data. 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.	Pipe diameter of 10 inch IPS (25.4 cm) and Standard Diameter Ratio (SDR) 11.		
7.	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.		

8.

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.

9.

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.

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