CONTINUUM™ DGDC-2482 NT

Bimodal Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DGDC-2482 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, large diameter 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 DGDC-2482 BK (See NOTES 1)
ASTM PE4710 pipe grade - 1600psi HDB @ 73°F and 1000psi HDB @ 140°F
NSF International: Standard 14 and 61
Black Pipe - DGDC-2482 BK (See NOTES 1)
Consult the regulations for complete details.
NOTES:
(1) Natural resin extruded under proper conditions with Dow-approved carbon black masterbatch (6.5%).

General Information			
Additive	Processing Aid		
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**
Specific Gravity			ASTM D792
Natural	0.949	g/cm³	
Black [1]	0.959	g/cm³	
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.080	g/10 min	
190°C/21.6 kg	6.8	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
Hydrostatic Strength [4]			ASTM D1598
1798 psi (12.4 MPa) : 20°C	> 100	hr	
798 psi (5.5 MPa) : 80°C	> 1000	hr	

Resistance to Rapid Crack Propagation, Pc [5]	> 12.0	bar	ISO 13477
Resistance to Rapid Crack Propagation, Tc [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 BK (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.
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4.	Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 BK (6.5%)
5.	3Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 BK (6.5%)Pipe diameter of 10 inch IPS (25.4 cm) and Standard Diameter Ratio (SDR) 11.
6.	3Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 BK (6.5%)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.

Recommended distributors for this material

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