

CONTINUUM™ DGDA-2492N NT

Bimodal Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DGDA-2492N 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, rapid crack propagation, and high melt strength is desired. Suitable applications include water pipes at nuclear power facilities, 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)

Plastics Pipe Institute (PPI): TR-4:

Black Pipe - CONTINUUM™ DGDA-2492N BK

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

National Sanitation Foundation (NSF): Standard 14 and 61

Black PE4710 Pipe - CONTINUUM DGDA-2492

Consult the regulations for complete details.

NOTES: Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 (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	Particle		
Processing Method	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density			ASTM D1505
-- ¹	0.949	g/cm ³	ASTM D1505
-- ²	0.959	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.060	g/10 min	ASTM D1238
190°C/21.6 kg	5.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	24.8	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	740	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790B
Resistance to rapid crack propagation, Pc			
Full Scale : 0°C ⁵	> 45.9	bar	ISO 13478
S-4 : 0°C ⁶	> 12.0	bar	ISO 13477

resistant to rapid crack propagation, Tc-S-4 ⁷		°C	ISO 13477
Slow crack propagation PENT ⁸	> 10000	hr	ASTM F1473
Thermal Stability	> 220	°C	ASTM D3350
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁹ (23°C)	490	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ¹⁰	< -75.0	°C	ASTM D746A
Extrusion	Nominal Value	Unit	
Melt Temperature	193 - 227	°C	
Extrusion instructions			
制造条件: 螺杆类型:高质量 HDPE(对于完全熔解最好使用阻隔) 熔体温度范围:380-440°F (193-225°C)			
NOTE			
1.	Natural resin		
2.	Black compound		
3.	Prepare compression molded fittings according to ASTM D 4703 procedure C, unless otherwise specified in the test method. Attributes will vary with molding conditions and aging time.		
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5.	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.		
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