CONTINUUM™ DGDA-2420 NT

Bimodal Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DGDA-2420 NT Bimodal Polyethylene Resin is produced using UNIPOL™ II process technology. This product is formulated with a UV stabilizer for outdoor storage. 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 is desired. Suitable applications include natural gas distribution pipes, irrigation and drip tube.
Industrial Standards Compliance:
ASTM D 3350: cell classification PE234373E
ISO PE 80 pipe grade
ASTM PE 2708 pipe grade - 1250 psi HDB @ 73F, 800 psi HDS at 73F, and 1000 psi HDB at 140F
Consult the regulations for complete details.

General Information			
Additive	Processing Aid		
Agency Ratings	ASTM D 3350 PE234370D ASTM D 3350 PE234373E ASTM PE2708 PPI TR-4		
Forms	Pellets		
Processing Method	Profile Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity (Natural Compound)	0.941	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg [1]	0.16	g/10 min	
190°C/21.6 kg [2]	9.5	g/10 min	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield)	> 17.9	MPa	ASTM D638
Tensile Elongation [4] (Break)	> 600	%	ASTM D638
Flexural Modulus - 2% Secant	> 621	MPa	ASTM D790B
Resistance to Rapid Crack Propagation, Pc [5]			
Full Scale : 0°C	> 38.6	bar	ISO 13478
S-4 : 0°C	> 10.0	bar	ISO 13477
Resistance to Rapid Crack Propagation, Tc - S-4 @ 5 bar [6]	< -2	°C	ISO 13477
Slow Crack Growth Resistance [7]			
Notched Pipe Test	> 3000	hr	ISO 13479
PENT	> 15000	hr	ASTM F1473
Thermal Stability	> 220	°C	ASTM D3350
Thermal	**Nominal Value**	**Unit**	**Test Method**

Brittleness Temperature [8]	< -75.0	°C	ASTM D746A

NOTE	
1.	Melt Index
2.	Flow Index
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.	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.
5.	Calculated value, determined by the equation in ISO 4437 based on S-4 test data. Pipe diameter of 12 inch IPS (30.5 cm) and Standard Dimension Ratio (SDR) 11.5.Pipe diameter of 12 inch IPS (30.5 cm) and Standard Dimension Ratio (SDR) 11.5.
6.	Calculated value, determined by the equation in ISO 4437 based on S-4 test data. Pipe diameter of 12 inch IPS (30.5 cm) and Standard Dimension Ratio (SDR) 11.5.Pipe diameter of 12 inch IPS (30.5 cm) and Standard Dimension Ratio (SDR) 11.5.
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.

Recommended distributors for this material

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