CONTINUUM™ DGDA-2490 BK GL

Bimodal Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DGDA-2490 BK GL 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 is desired. Suitable applications include natural gas distribution pipes, industrial piping, mining, sewage, and municipal water service lines.
Industrial Standards Compliance:
ISO Standard
MRS 10 / 20°C, PE100 listed by Exova
CRS 10 (20°C, 100 yr); CRS 8 (40°C, 90 yr); CRS 6.3 (60°C, 11 yr); CRS 11.2 (14°C, 50 yr)

General Information			
Additive	Processing Aid		
Agency Ratings	ISO PE 100		
Processing Method	Profile Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density			ISO 1183
Natural	0.949	g/cm³	
Black	0.959	g/cm³	
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.080	g/10 min	
190°C/21.6 kg	7.5	g/10 min	
190°C/5.0 kg	0.31	g/10 min	
Carbon Black Content	2.3	%	ISO 6964
Carbon Black Dispersion	< 3		ISO 18553
Hydrostatic Strength			ISO 1167
1798 psi (12.4 MPa) : 20°C	> 200	hr	
725 psi (5.0 MPa) : 80°C	> 5000	hr	
783 psi (5.4 MPa) : 80°C	> 1000	hr	
Resistance to Rapid Crack Propagation, Pc - S-4 (0°C)	> 12.0	bar	ISO 13477
Resistance to Rapid Crack Propagation, Tc - S-4 at 10 bar	< -17	°C	ISO 13477
Slow Crack Growth PENT - 348 psi (2.4 MPa) (80°C)	> 3000	hr	ISO 16241
Stress Crack Resistance - Notched Pipe Test (80°C) [1]	> 1000	hr	ISO 13479
Tensile Strength - for Butt-fusion	Test to failure: Ductile		ISO 13953
Oxidation Induction Time	> 20	min	ISO 11357-6
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	> 24.1	MPa	ISO 6259
Tensile Strain (Break)	> 500	%	ISO 6259

NOTE	
	133 psi (0.92 MPa), 110 mm SDR
1.	11 pipe

Recommended distributors for this material

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