

## Dow CONTINUUM™ DGDA-2490 NT Bimodal Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

CONTINUUM™ DGDA-2490 NT 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. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-CONTINUUM-DGDA-2490-NT-Bimodal-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_Dow-CONTINUUM-DGDA-2490-NT-Bimodal-Polyethylene-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in <sup>3</sup>	natural resin; ASTM D792
	0.959 g/cc	0.0346 lb/in <sup>3</sup>	Natural resin extruded under proper conditions with black masterbatch DFNF-0092 (6.5%); ASTM D792
High Load Melt Index	7.0 g/10 min	7.0 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	
Melt Index of Compound	0.080 g/10 min	0.080 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
PENT	>= 6000 hour	>= 6000 hour	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM F1473
Tensile Strength, Yield	24.8 MPa	3600 psi	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
Elongation at Break	740 %	740 %	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
Flexural Modulus	1.03 GPa	150 ksi	Compression molded parts prepared according to ASTM D 1928, method 1, procedure B.; ASTM D790
Izod Impact, Notched	4.86 J/cm	9.10 ft-lb/in	Compression molded parts prepared according to ASTM D 1928, method A.; ASTM D256
Hydrostatic Design Basis	5.50 MPa	798 psi	Hydrostatic Strength @ 176°F and 798 psi for a minimum of 1000 hrs; Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 (6.5%); ASTM D1598

Mechanical Properties	Metric	English	Comments
	12.4 MPa	1800 psi	Strength @ 1798 psi for a minimum of 100 hrs, Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 (6.5%); ASTM D1598

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	>= 220 °C	>= 428 °F	ASTM D3350
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Compression molded parts prepared according to ASTM D 1928, procedure A.; ASTM D746

Descriptive Properties	Value	Comments
Resistance to Rapid Crack Propagation, Pc psi	min 174	Pipe dia. of 10 in. and Standard Diameter Ratio (SDR) 11; Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 (6.5%)
Resistance to Rapid Crack Propagation, Tc °F	max 2	Pipe dia. of 10 in. and Standard Diameter Ratio (SDR) 11; Natural resin extruded under proper conditions with carbon black masterbatch DFNF-0092 (6.5%)

## Contact Songhan Plastic Technology Co.,Ltd.

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