DOW™ HDPE DGDB-2480 NT

High Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW DGDB-2480 NT high density polyethylene resin was prepared by UNIPOL™process technology. This product can be used in the field of pipeline construction. These pipelines are required to withstand water pressure strength for a long time, and have the ability to resist slow cracking and fast cracking. Applicable applications include natural gas transmission and distribution pipelines, large-diameter industrial pipelines, mining, sewage and municipal water supply and drainage pipelines.
Compliance with industry standards
ASTM D 3350: file
primary colors-PE345464A
black-PE345464C (see note 1)
Plastic Pipe Research Institute (PPI):TR-4
primary color pipe-DGDB-2480 NT 3408
ASTM PE3408 pipe number-1600psi HDB @ 73 °F
black tubing-DGDB-2480 BK 3408 (see note 2)
ASTM PE3408 pipe number-1600psi HDB @ 73 °F and 800psi HDB @ 140 °F
National Health Foundation (NSF):
Standard 14 and 61
primary color pipe-DGDB-2480 NT 3408
black tubing-DGDB-2480 BK 3408 (see note 2)
please check the regulations for complete details.
remarks:
(1) the first 5 digits in the standard grade represent the primary color resin used in the product. The last digit and the following letters represent black resin (6.5% DFNF-0092 is added to the primary color resin).
(2) Under appropriate processing conditions, DFNF-0092 carbon black masterbatch (6.5%) can be added to extrude the primary color resin.

General Information			
Agency Ratings	ASTM D 3350 PE345464A		
	ASTM D 3350 PE345464C		
	NSF 14		
	NSF 61		
	PPI TR-4		
Forms	Particle		
Processing Method	Profile extrusion molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			ASTM D792
-- [1]	0.944	g/cm³	ASTM D792
-- [2]	0.954	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.10	g/10 min	ASTM D1238
190°C/21.6 kg	8.3	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield)	22.1	MPa	ASTM D638
Tensile Elongation [4] (Break)	850	%	ASTM D638
Flexural Modulus	827	MPa	ASTM D790B

Slow crack propagation PENT [5] (80°C)	200	hr	ASTM F1473
Thermal Stability	> 250	°C	ASTM D3350
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [6] (23°C)	210	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature [7]	< -100	°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.	Extrusion of natural resin under normal conditions using carbon black masterbatch DFNF-0092 (6.5%)
3.	Prepare the compression molded fitting according to ASTM D 4703 procedure C. Attributes will vary with molding conditions and aging time.
4.	Prepare the compression molded fitting according to ASTM D 4703 procedure C. Attributes will vary with molding conditions and aging time.
5.	2.4 MPa
6.	Prepare the compression molded fitting according to ASTM D 4703 procedure C. Attributes will vary with molding conditions and aging time.
7.	Prepare the compression molded fitting according to ASTM D 4703 procedure C. Attributes will vary with molding conditions and aging time.

Recommended distributors for this material

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WECHAT