



Technical Data Sheet

CONTINUUM™ DGDA-2488 Bimodal Polyethylene Resin

Overview

Industrial Standards Compliance:

- ASTM D 3350: cell classification PE435540A

CONTINUUM™ DGDA-2488 NT Bimodal Polyethylene Resin is produced using UNIPOL™ II process technology. It is specifically designed for use in all duct and cable in conduit (CIC) applications for both telecommunications and power cables. Typical uses include high performance conduit for fiber optic networks and 5G expansion. The natural resin combined with color concentrate can be readily processed by any current duct or conduit extrusion method in all sizes at commercial rates.

Additive

- Antiblock: No
- Slip: No
- Processing aid: Yes

Typical Properties

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method ¹
Density	0.954	g/cm ³	0.954	g/cm ³	ASTM D792
Melt Index					ASTM D1238
190°C/2.16 kg	0.28	g/10 min	0.28	g/10 min	
190°C/21.6 kg	27	g/10 min	27	g/10 min	
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 100% Igepal, F50	> 1000	hr	> 1000	hr	ASTM D1693
Mechanical					
Tensile Strength ²					ASTM D638
Yield	3300	psi	22.8	MPa	
Break	4600	psi	31.7	MPa	
Tensile Elongation					ASTM D638
Yield	3.7	%	3.7	%	
Break	750	%	750	%	
Flexural Modulus - 2% Secant	145000	psi	1000	MPa	ASTM D790B
Slow Crack Growth PENT (176°F (80°C))	> 10		> 10		ASTM F1473
Thermal					
Brittleness Temperature	< -76.0	°F	< -60.0	°C	ASTM D746
Melting Temperature (DSC)	270	°F	132	°C	Dow Method
Peak Crystallization Temperature	244	°F	118	°C	Dow Method

1. ASTM: American Society for Testing and Materials.
2. Plaque molded and tested in accordance with ASTM D4976.

