

CONTINUUM™ DMDB-6620 NT 7

High Density Polyethylene Resin
The Dow Chemical Company

Technical Data

Product Description

CONTINUUM™ DMDB-6620 NT 7 Bimodal High Density Polyethylene Resin is produced by UNIPOL™ II process technology. This resin is a high stiffness resin with superior top-load performance in conjunction with excellent environmental stress crack resistance. CONTINUUM DMDB-6620 NT 7 is specifically designed for use in extrusion blow molding equipment, producing containers up to 20 gallons in size, which require superior top-load combined with excellent environmental stress crack resistance. This product is especially well suited for containers used to package household industrial chemicals (e.g. detergents, and fabric softeners), toiletries and cosmetics (e.g. shampoos, creams, lotions, etc.), health and food products.

- High stiffness for superior top-load performance
- Excellent environmental stress crack resistance
- High impact strength
- Good extrusion characteristics
- Contains Antistat

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 3.1a
- Canadian HPFB (No Objection)

Consult the regulations for complete details.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• The Dow Chemical Company
Availability	• Latin America • North America
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1a • HPFB (Canada) No Objection
Forms	• Pellets
Processing Method	• Blow Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.958 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/2.16 kg	0.28 g/10 min	
190°C/21.6 kg	27 g/10 min	
Environmental Stress-Cracking Resistance		ASTM D1693
50°C, 10% Igepal, F50	220 hr	
50°C, 100% Igepal, F50	> 1100 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield	24.8 MPa	
Break	29.0 MPa	
Tensile Elongation		ASTM D638
Yield	3.7 %	
Break	800 %	
Flexural Modulus - 2% Secant	1170 MPa	ASTM D790B

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	59	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	-60.0 °C	ASTM D746
Vicat Softening Temperature	131 °C	ASTM D1525

Additional Information

Plaque molded and tested in accordance with ASTM D4976.