

CONTINUUM™ DMDA-6620 HEALTH+™

Bimodal Polyethylene Resin
The Dow Chemical Company

Technical Data

Product Description

CONTINUUM™ DMDA-6620 HEALTH+™ Bimodal High Density Polyethylene Resin (HDPE) is produced by UNIPOL™ II technology. This resin provides excellent stiffness, top load performance, and environmental stress crack resistance. This product is specifically designed for blow molding processes and is well-suited to packaged health care and pharmaceutical products.

Main Characteristics:

- Excellent top load performance
- Excellent stress crack resistance
- Good processability

Complies with:

- U.S. FDA 21CFR 177.1520 (c) 3.1a
- Canadian HPFB (No Objections)
- EU, No 10/2011
- USP XXIII Class VI
- Drug Master File Listing

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	North America		
Agency Ratings	- DMF Unspecified Rating - EU No 10/2011	- FDA 21 CFR 177.1520(c) 3.1a - HPFB (Canada) No Objection	USP 23
Forms	Pellets		
Processing Method	Injection Molding		

Physical

	Nominal Value Unit	Test Method
Specific Gravity	0.958 g/cm³	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.