Technical Information

CONTINUUM™ DMDD-6620 HEALTH+™
Bimodal Polyethylene Resin

Overview

CONTINUUM™ DMDD-6620 HEALTH+™ 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. DMDD-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 reason offers excellent processability with low plate out properties. This product is especially well suited to packaged health care and pharmaceutical products.

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

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 3.1a
- EU, No 10/2011
- U.S. FDA-DMF
- Canadian HPFB No Objection
- USP Class VI

Consult the regulations for complete details.

Additive Antiblock:No
Slip: No
Processing Aid: Yes

Additive

- Antiblock: No
- Slip: No
- Processing Aid: Yes

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.958	g/cm³	0.958	g/cm³	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)					ASTM D1693
122°F (50°C), 10% Igepal, F50	220	hr	220	hr	
122°F (50°C), 100% Igepal, F50	> 1100	hr	> 1100	hr	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength					ASTM D638
Yield	3600	psi	24.8	MPa	
Break	4210	psi	29.0	MPa	
Tensile Elongation					ASTM D638
Yield	3.7	%	3.7	%	
Break	800	%	800	%	
Flexural Modulus - 2% Secant	170000	psi	1170	MPa	ASTM D790B
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness (Shore D)	59		59		ASTM D2240
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Brittleness Temperature	-76.0	°F	-60.0	°C	ASTM D746
Vicat Softening Temperature	268	°F	131	°C	ASTM D1525
Additional Information					
Plaque molded and tested in accordance with ASTM D4976.					