UNIVAL™ DMDA-6230 NT 7
High Density Polyethylene Resin

Overview

- Outstanding environmental stress crack resistance
- High impact strength
- Good extrusion characteristics

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 3.2a
- U.S. FDA-DMF
- U.S. USP Class VI
- Canadian HPFB No Objection (With Limitations)
- Underwriters Laboratories, Inc.

Consult the regulations for complete details.

UNIVAL™ DMDA-6230 NT 7 High Density Polyethylene (HDPE) Resin is specifically designed for use in either intermittent or continuous blow molding equipment to produce containers up to 20 gallons in size - applications that require the combination of outstanding environmental stress crack resistance (ESCR) and, high impact strength. UNIVAL DMDA- 6230 NT 7 HDPE resin is also considered a multipurpose blow molding resin designed for the high speed production of blow molded containers used for packaging household industrial chemicals (e.g., detergents, bleach, fabric softeners), toiletries and cosmetics (e.g., shampoos, creams, lotions, etc.), health and medicinal aids. In addition, it can be blow molded into other thin walled parts and houseware items, and also can be extruded into profiles or sheets.

Additive

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

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.949	g/cm³	0.949	g/cm³	ASTM D792
Melt Index					ASTM D1238
190°C/2.16 kg	0.25	g/10 min	0.25	g/10 min	
190°C/21.6 kg	25	g/10 min	25	g/10 min	
Environmental Stress-Cracking Resistance (ESCR)					ASTM D1693
122°F (50°C), 100% Igepal, F50	180	hr	180	hr	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength					ASTM D638
Yield	3400	psi	23.4	MPa	
Break	4500	psi	31.0	MPa	
Tensile Elongation					ASTM D638
Yield	8.0	%	8.0	%	
Break	900	%	900	%	
Flexural Modulus - 2% Secant	132000	psi	910	MPa	ASTM D790B
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Impact Strength [1]	100	ft·lb/in²	210	kJ/m²	ASTM D1822
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness (Shore D)	57		57		ASTM D2240
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ASTM D648
66 psi (0.45 MPa), Unannealed	144	°F	62.0	°C	
Brittleness Temperature	< -105	°F	< -76.0	°C	ASTM D746
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525
Melting Temperature (DSC)	266	°F	130	°C	Dow Method
Peak Crystallization Temperature (DSC)	244	°F	118	°C	Dow Method
Additional Information					
Plaque molded and tested in accordance with ASTM D4976.					

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Notes

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

[1] Type S

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