



DOW™ HDPE DPDA-3220 NT 7

The Dow Chemical Company - High Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

Dow DPDA-3220 NT 7 High Density Polyethylene Resin is produced via UNIPOL™ Process Technology from Dow and is intended for rotational and injection molding is specifically designed for applications requiring excellent processability and aesthetics combined with low warpage and good mechanical properties. Processing and Stabilization: Dow DPDA-3220 NT 7 High Density Polyethylene Resin is fully heat and UV stabilized resulting in a wide processing latitude, good color retention and long life expectancy.

- Rotational molding or injection molding
- For Large Agricultural Tanks, Intermediate Bulk Containers, Potable Water, Chemical Tanks and Industrial Products
- Excellent impact strength, stress crack resistance and processability

Complies with:

- U.S. FDA 21 CFR 177.1520 (c)3.1a
- Canadian HPFB No Objection
- European Commission Regulation (EU) No 10/2011

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU 10/2011	• FDA 21 CFR 177.1520(c) 3.1a	• HPFB (Canada) No Objection
Forms	• Pellets		
Processing Method	• Injection Molding	• Rotational Molding	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.944		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) ²			
122°F, 100% Igepal, F50	> 743	hr	ASTM D1693A
122°F, 100% Igepal, F50	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	3100	psi	ASTM D638
Tensile Elongation ² (Yield)	12	%	ASTM D638
Tensile Elongation ² (Break)	710	%	ASTM D638
Flexural Modulus ²			ASTM D790B
--	143000	psi	
1% Secant	107000	psi	
Impact	Nominal Value	Unit	Test Method
Impact Strength (-40°F, 0.250 in, Rotational Molded)	> 200	ft-lb	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ² (66 psi, Unannealed)	132	°F	ASTM D648
Deflection Temperature Under Load ²			ASTM D648
264 psi, Unannealed	107	°F	
Melting Temperature (DSC)	261	°F	Internal Method

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Notes

¹ Typical properties: these are not to be construed as specifications.

² Plaque molded and tested in accordance with ASTM D4976.
