

# DOW™ HDPE DPDA-3220 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

## Message:

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 Information			
UL YellowCard	E337483-100806407		
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.942	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance <sup>1</sup>			
50°C, 100% Igepal, F50	> 743	hr	ASTM D1693A
50°C, 100% Igepal, F50	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	21.4	MPa	ASTM D638
Tensile Elongation <sup>3</sup>			ASTM D638
Yield	12	%	
Break	710	%	
Flexural Modulus <sup>4</sup>			ASTM D790B
--	986	MPa	
1% Secant	738	MPa	
Impact	Nominal Value	Unit	Test Method

Impact Strength (-40°C, 6.35 mm, Rotational Molded)	> 271	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>5</sup>			ASTM D648
0.45 MPa, Unannealed	55.6	°C	
1.8 MPa, Unannealed	41.7	°C	
Melting Temperature (DSC)	127	°C	Internal Method

NOTE	
1.	Plaque molded and tested in accordance with ASTM D4976.
2.	Plaque molded and tested in accordance with ASTM D4976.
3.	Plaque molded and tested in accordance with ASTM D4976.
4.	Plaque molded and tested in accordance with ASTM D4976.
5.	Plaque molded and tested in accordance with ASTM D4976.

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