

# DOW™ HDPE DMDC-1210 NT 7

## The Dow Chemical Company - High Density Polyethylene Resin

Tuesday, November 5, 2019

#### **General Information**

#### **Product Description**

DOW™ DMDC-1210 NT 7 High Density Polyethylene Resin is intended for use in both compression and injection molded closure applications. This resin has been designed to meet demanding performance requirements, especially in the areas of stiffness, impact strength, and sensory, while maintaining good processing characteristics beneficial to molders. Typical applications include injection molded closures for water bottles, where minimizing the contribution of the package to the taste of the product is a requirement.

#### Main Characteristics:

- · Excellent Stiffness and Impact Strength
- · Excellent Organoleptic Properties
- Excellent Processing Characteristics

#### Complies with:

- U.S. FDA 21 CFR 177.1520(c)3.1a.
- · Canadian HPFB No Objection
- EU. No 10/2011
- · Consult the regulations for complete details

General					
Material Status	Commercial: Active				
Availability	Latin America	North America			
Additive	Antiblock: No	Processing Aid: No     Slip: No			
Agency Ratings	• EU No 10/2011	<ul> <li>FDA 21 CFR 177.1520(c) 3.1a</li> <li>HPFB (Canada) No Objection</li> </ul>			
Forms	Pellets				

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	0.954		ASTM D792	
Melt Mass-Flow Rate (190°C/2.16 kg)	10	g/10 min	ASTM D1238	
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693	
122°F, 10% Igepal, F50	12.0	hr		
122°F, 100% Igepal, F50	22.0	hr		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Yield)	3960	psi	ASTM D638	
Tensile Strength (Break)	2970	psi	ASTM D638	
Tensile Elongation (Yield)	13	%	ASTM D638	
Tensile Elongation (Break)	1500	%	ASTM D638	
Flexural Modulus - 2% Secant	152000	psi	ASTM D790	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	59		ASTM D2240	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	257	°F	ASTM D1525	
Melting Temperature (DSC)	266	°F	Internal Method	
Additional Information				

Plaque molded and tested in accordance with ASTM D 4976.



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Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

