

DOW™ HDPE DMDC-1210 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

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 Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.952	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% Igepal, F50	12.0	hr	ASTM D1693
50°C, 100% Igepal, F50	22.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	27.3	MPa	ASTM D638
Fracture	20.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	13	%	ASTM D638
Fracture	1500	%	ASTM D638
Flexural Modulus - 2% Secant	1050	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525
Melting Temperature (DSC)	130	°C	Internal method

Additional Information

Plaque molded and tested in accordance with ASTM D 4976.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

