

DOW™ HDPE DMDA-8007 HEALTH+™

High Density Polyethylene Resin
The Dow Chemical Company

Message:

Dow HDPE DMDA-8007 HEALTH+™ is a narrow molecular weight distribution high density homopolymer designed to offer excellent stiffness, low warpage, good toughness, and good moldability. The resin is suitable for injection-molded medical devices such as IV kit components and respiratory care as well as caps and closures for pharmaceutical packaging.

- Main Characteristics:
- Excellent stiffness
 - Low warpage
 - Good toughness
 - High gloss parts
 - Complies with:
 - U.S. FDA 21CFR 177.1520 (c) 2.2
 - EU, No 10/2011
 - Canadian HPFB, No Objection
 - USP XXIII Class VI
 - Drug Master File Listing
 - Consult the regulations for complete details.

General Information			
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 2.2		
	HPFB (Canada) No Objection		
	USP XXIII, Class VI 2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.965	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	8.3	g/10 min	ASTM D1238
190°C/21.6 kg	180	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	2.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	31.0	MPa	ASTM D638
Fracture	17.9	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	6.0	%	ASTM D638
Fracture	350	%	ASTM D638

Flexural Modulus - 2% Secant	1410	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹	168	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	83.9	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	131	°C	ASTM D1525
Melting Temperature (DSC)	133	°C	Internal method
Peak Crystallization Temperature (DSC)	120	°C	Internal method
Additional Information			

根据 ASTM D 4976 进行基板模制和测试.

NOTE

1. Type s

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