

DOW™ HDPE DMDA-8920 HEALTH+™

High Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW HDPE DMDA-8920 HEALTH+™ Resin is a narrow molecular weight distribution high density copolymer designed to offer an excellent balance of toughness, environmental stress cracking resistance, and processability. The resin is suitable for injection-molded medical devices such as IV kit components and respiratory care. This product can also be used in pharmaceutical packaging including caps and closures.

Main Characteristics:

Excellent toughness

Excellent stress crack resistance

Good processability

High gloss parts

Complies with:

U.S. FDA 21CFR 177.1520(c)3.1a

USP XXIII Class VI

EU, No 10/2011

Canadian HPFB - No Objection

Drug Master File Listing

Consult the regulations for complete details.

General Information			
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.1a		
	HPFB (Canada) No Objection		
	USP 23		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.954	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	3.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.3	MPa	ASTM D638
Fracture	13.8	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	250	%	ASTM D638
Flexural Modulus - 2% Secant	1150	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method

Tensile Impact Strength ¹	42.0	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.8	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Melting Temperature (DSC)	130	°C	Internal method
Peak Crystallization Temperature (DSC)	117	°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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