DOW™ HDPE DMDA-8907 HEALTH+™

High Density Polyethylene Resin

The Dow Chemical Company

Message:

Dow HDPE DMDA-8907 HEALTH+™ is produced via UNIPOL™ Process Technology from Dow and is intended for use in injection molded medical device applications. This resin has been designed to provide excellent processability to molders and to meet the requirements of devices requiring impact strength and environmental stress crack resistance.
Main Characteristics:
Good environmental crack resistance
Excellent toughness
Gamma stable
Low extractables
Complies with:
U.S. FDA 21CFR 177.1520 (c) 3.1a
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) 3.1a HPFB (Canada) No Objection USP 23 Europe No 10/2011		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.952	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.8	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	12.0	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	26.9	MPa	ASTM D638
Fracture	22.8	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	1100	%	ASTM D638
Flexural Modulus - 2% Secant	1070	MPa	ASTM D790B

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength [1]	84.1	kJ/m²	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	128	°C	ASTM D1525
Melting Temperature (DSC)	131	°C	Internal method
Peak Crystallization Temperature (DSC)	118	°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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