DOW™ HDPE DMDA-8920 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

Injection molding
For injection molded housewares, toys, food containers and pails
Excellent balance of toughness, stress crack resistance and processability
Very narrow molecular weight distribution
Complies with U.S. FDA 21 CFR 177.1520 (c)3.1a
Complies with U.S. FDA - DMF
Complies with Canadian HPFB No Objection
Complies EU, No 10/2011
Consult the regulations for complete details.
DOW DMDA-8920 NT 7 High Density Polyethylene (HDPE) Resin is produced via UNIPOL™ Process Technology from Dow and is intended for use in a broad range of injection molding applications such as housewares, toys, food containers and pails. This resin has been designed to provide an excellent balance of toughness, environmental stress crack resistance and processability.

General Information			
Agency Ratings	DMF not rated FDA 21 CFR 177.1520(c) 3.1a HPFB (Canada) No Objection Europe No 10/2011		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.954	g/cm³	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/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	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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