

DOW DMDA-8907 NT 7

High Density Polyethylene Resin

- Injection molding
- For injection molded pails, industrial parts and other shipping containers
- Excellent impact strength, stress crack resistance and processability
- · Very narrow molecular weight distribution
- Complies with U.S. FDA 21 CFR 177.1520 (c)3.1a Consult the regulations for complete details.

DOW DMDA-8907 NT 7 High Density Polyethylene (HDPE) Resin is produced via UNIPOL[™] Process Technology from Dow and is intended for use in injection molding applications such as pails, industrial parts and other shipping containers. This resin has been designed to provide excellent processability for molders and to meet the rigorous performance characteristics of applications requiring stackability, environmental stress crack resistance and impact strength.

sical Properties	Test Method	Values ⁽¹⁾ English (SI)
Resin Properties		
Melt Index (I ₂) @190°C/2.16 kg, g/10 min	ASTM D 1238	6.75
Density, g/ cm ³	ASTM D 792	0.952
DSC Melting Point, °F (°C)	Dow Method	268 (131)
DSC Crystallization Point, °F (°C)	Dow Method	244 (118)
Vicat Softening Point, °F (°C)	ASTM D 1525	262 (128)
Molded Plaque Properties ⁽²⁾		
Hardness, Shore D	ASTM D 2240	59
Flexural Modulus, 2% Secant, psi (MPa)	ASTM D 790 B	155,000 (1069)
Tensile Strength at Break, psi (MPa)	ASTM D 638	3300 (23)
Tensile Strength at Yield, psi (MPa)	ASTM D 638	3900 (27)
Tensile Elongation at Break, %	ASTM D 638	1100
Tensile Elongation at Yield, %	ASTM D 638	7
Tensile Impact Strength, ft·lb/in. ² (kJ/m ²)	ASTM D 1822, Type S	40 (84)
Environmental Stress Crack Resistance,	ASTM D 1693	12
122°F (50°C), F ₅₀ , 100% Igepal®, hrs.		
Brittleness Temperature, °F (°C)	ASTM D 746	<-105 (<-76)
Deflection Temperature Under Load	ASTM D 648	
@ 66 psi (0.45 MPa), °F (°C)		163 (73)

(1) Typical values, not to be construed as specifications.

Users should confirm results by their own tests.Molded and tested in accordance with ASTM D4976.

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-See "Handling Considerations" attached

Handling Considerations

Material Safety Data (MSD) sheets for the product are available from Dow Plastics, a business group of The Dow Chemical Company and its subsidiaries, to help customers further satisfy their own safe handling and disposal needs and those that may be required by OSHA. Material Safety Data sheets on Dow products are intended to provide customers with essential information on such topics as Health and Worker Safety, Combustibility, and Disposal Considerations. Such information should be requested from the supplier(s) of any product(s) prior to working with it. As various additives and processing aids used in fabrication have their own safe use profile, their possible influence on handling and disposal must be investigated separately. For "Regulated" uses, such as food contact, your Dow sales representative can obtain compliance letters for specific resins.

Disposal

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/provincial, and local laws and regulations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROC-ESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients). FOR UNUSED AND UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device, and landfill. These polymers have high heat values and should be incinerated only in units designed to handle high heats of combustion. In landfill, these polymers are inert, do not degrade quickly, form a strong and permanent soil base, and evolve virtually no gases or leachates known to pollute water resources.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess, or manage chemicals or plastics, and that manage used drums. For more details, contact The Dow Chemical Company Customer Information Center at 1-800-441-4369. In Mexico, call 95-800-441-4369.

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Additional Information

For more information in the United States or Canada, call 1-800-441-4369. In Mexico, call 95-800-441-4369.

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Published May 2001

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