



DOW Polyethylene 17450N

High Density

- For toys and housewares
- Good low temperature impact strength, gloss and excellent toughness
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a
Consult the regulations for complete details.

DOW Polyethylene 17450N High Density is a narrow molecular weight distribution copolymer

designed to offer low temperature impact strength and gloss with excellent toughness. This resin

has good processability over a wide range of molding conditions.

Physical Properties	Test Method	Values ⁽¹⁾ English (SI)
Resin Properties		
Melt Index (I ₂) @ 190°C/2.16 kg, g/10 min	ASTM D 1238	17
Density, g/ cm ³	ASTM D 792	0.950
DSC Melting Point, °F (°C)	Dow Method	262 (128)
DSC Crystallization Point, °F (°C)	Dow Method	239 (115)
Vicat Softening Point, °F (°C)	ASTM D 1525	259 (126)
Molded Plaque Properties⁽²⁾		
Hardness, Shore D	ASTM D 2240	62
Flexural Modulus, 2% Secant, psi (MPa)	ASTM D 790 B	114,000 (993)
Tensile Strength at Break, psi (MPa)	ASTM D 638	1800 (12)
Tensile Strength at Yield, psi (MPa)	ASTM D 638	3300 (23)
Tensile Elongation at Break, %	ASTM D 638	300
Tensile Elongation at Yield, %	ASTM D 638	3
Tensile Impact Strength, ft-lb/in. ² (kJ/m ²)	ASTM D 1822, Type S	140 (294)
Environmental Stress Crack Resistance, 122°F (50°C), F ₅₀ , 100% Igepal®, hrs.	ASTM D 1693	3
Brittleness Temperature, °F (°C)	ASTM D 746	<-105 (<-76)
Deflection Temperature Under Load @ 66 psi (0.45 MPa), °F (°C)	ASTM D 648	149 (65)

(1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.

(2) Molded and tested in accordance with ASTM D4976.

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Disposal

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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

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Dow Plastics

We don't succeed unless you do.