



# DOW Polyethylene 722

- Low Density Polyethylene (LDPE)
- Typical applications include caps/closures
- Good impact, ESCR with excellent flexibility
- Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1.
- Complies with Canadian HPFB No Objection (With Limitations)  
Consult the regulations for complete details.

DOW Polyethylene 722 is a broad molecular weight distribution homopolymer designed to offer good impact strength and crack resistance, with excellent flexibility. The resin has good processability over a wide range of molding conditions.

Physical Properties	Test Method	Values <sup>(1)</sup> English (SI)
<b>Resin Properties</b>		
Melt Index (I <sub>2</sub> ) @190°C/2.16 kg, g/10 min	ASTM D 1238	8.0
Density, g/cm <sup>3</sup>	ASTM D 792	0.918
DSC Melting Point, °F (°C)	Dow Method	224 (107)
DSC Crystallization Point, °F (°C)	Dow Method	204 (95)
Vicat Softening Point, °F (°C)	ASTM D 1525	190 (88)
<b>Molded Plaque Properties<sup>(2)</sup></b>		
Hardness, Shore D	ASTM D 2240	43
Flexural Modulus, 2% Secant, psi (MPa)	ASTM D 790 B	34,000 (232)
Tensile Strength at Break, psi (MPa)	ASTM D 638	1400 (9)
Tensile Strength at Yield, psi (MPa)	ASTM D 638	1200 (8)
Tensile Elongation at Break, %	ASTM D 638	500
Tensile Elongation at Yield, %	ASTM D 638	4
Tensile Impact Strength, ft-lb/in. <sup>2</sup> (kJ/m <sup>2</sup> )	ASTM D 1822, Type S	130 (273)
Environmental Stress Crack Resistance, 122°F (50°C), F <sub>50</sub> , 100% Igepal®, hrs.	ASTM D 1693	<1
Brittleness Temperature, °F (°C)	ASTM D 746	-76 (-60)
Deflection Temperature Under Load @ 66 psi (0.45 MPa), °F (°C)	ASTM D 648	99 (37)

(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.

