



# MARPOL HDM 540 High Density Polyethylene



# PRODUCT DATA SHEET

PROPERTY	VALUE	ASTM
Melt Index (190°C/ 2.16kg) (g/10 min)	40	D 1238
Density (g/cc)	0.948	D 1505
Bulk Density (lb/ft <sup>3</sup> )	37 - 39	D 1895
Tensile Strength at Break (psi)	3160	D 638 *
Elongation at Break (%)	5.4	D 638 *
Flexural Modulus, 1% Secant (psi)	142900	D 790 **
Izod Impact, 23 °C (ft-lbs/in)	0.43	D 256
Unnotched Impact, -18 °C (ft-lbs/in)	6.8	D 4812
Vicat Softening Point (°F)	250	D 1525
Hardness, Shore D	62	D 2240
Heat Deflection Temperature, 66 psi (°F)	147	D 648
Melting Temperature (°F)	259.7	D 3418

\* Conditions: 50 mm/min, Type IV

\*\* Conditions: 12.5 mm/min

MARPOL® HDM 540 is a high-flow “freezer” grade resin that exhibits enhanced cold temperature impact performance, enhanced processing, and thermal stability with good color and organoleptic properties.

**Recommended Applications:** Rigid food containers such as 4-, 5- and 6- quart ice cream containers that are produced in fast cycling multi-cavity stack molds.

This resin complies with FDA regulation 21 CFR 177.1520 (c) 3.1a, and may be used as articles or components of articles intended for packaging or holding food, except during cooking.

This information, to our knowledge, is believed to be correct. The use of this product in its actual conditions are beyond our control and satisfactory results for this product is the customer’s sole responsibility.