

M200056

HDPE for Injection Molding

M200056 is an injection molding grade High Density Polyethylene (HDPE) copolymer of narrow molecular weight distribution. It has been designed for easy mold fill-out and low warpage with a good balance of toughness and stiffness characteristics.

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Typical Applications

M200056 is recommended for injection molding of food containers, housewares, toys, base cups, caps and closures.

Physical Properties	Unit	Value ⁽¹⁾	ASTM Method
Melt index	g/10 min.	20.0	D-1238
Density	g/cm ³	0.956	D-1505
Vicat softening point	°C	128	D-1525
Brittleness temperature	°C	< -75	D-746
Tensile modulus @1%elongation	MPa	1300	D-638
Tensile strength @yield	MPa	29	D-638
Tensile strength @break	MPa	25	D-638
Tensile elongation @break	%	350	D-638
Izod impact (notched)	J/m	30	D-256
Hardness (shore D)	-	65	D-2240
ESCR (100%Igepal), F ₅₀	Hrs.	1.2	D-1693B

Test specimen is prepared from compression molded sheet made according to ASTM D-1928 Procedure C.

(1) Typical values should not be construed as specification limits.

Processing Conditions

Typical molding conditions for M200056 are:

Barrel temperature °C (°F) = 180 - 250 (356 - 480)

Mold temperature °C (°F) = 15 - 60 (60 - 140)

Food Regulation

Certificate is available on request.