

# 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.

*NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against infringement.*

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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 <sup>(1)</sup>	ASTM Method
Melt index	g/10 min.	20.0	D-1238
Density	g/cm <sup>3</sup>	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 <sub>50</sub>	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.