

M300054

HDPE for Injection Molding

M300054 is an injection molding grade High Density Polyethylene (HDPE) copolymer. Its narrow molecular weight distribution and high flow results in low warpage, excellent gloss and fast molding cycles.

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:

M300054 is recommended for applications such as housewares, small containers, aerosol caps, base cups, cups, tubs and other thin-walled articles.

Physical Properties	Unit	Value ⁽¹⁾	ASTM Method
Melt index	g/10 min.	30.0	D-1238
Density	g/cm ³	0.954	D-1505
Vicat softening point	°C	128	D-1525
Brittleness temperature	°C	< -75	D-746
Secant modulus @1%elongation	MPa	1200	D-638
Tensile strength @yield	MPa	29	D-638
Tensile strength @break	MPa	28	D-638
Tensile elongation @break	%	200	D-638
Izod impact (notched)	J/m	33	D-256
Hardness (shore D)	-	68	D-2240
ESCR (100%Igepal), F ₅₀	Hrs.	0.5	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 M300054 are:

Barrel temperature °C (°F) = 175 - 235 (347 - 455)

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

Food Regulation

Certificate is available on request.