

M40060

HDPE for Injection Molding

M40060 is an injection molding grade High Density Polyethylene (HDPE) of narrow molecular weight distribution. It has improved moldability. Articles produced from this resin exhibit excellent impact strength, low warpage, stress crack resistance and excellent gloss. M40060 is available with UV stabilizer as M40060S.

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Typical Applications

M40060 resin is recommended for the manufacture of injection molded articles such as pails, shipping containers and industrial parts.

Physical Properties	Unit	Value ⁽¹⁾	ASTM Method
Melt index	g/10 min.	4	D-1238
Density	g/cm ³	0.960	D-1505
Vicat softening point	°C	128	D-1525
Brittleness temperature	°C	< -75	D-746
Tensile modulus @1%elongation	MPa	1240	D-638
Tensile strength @yield	MPa	33	D-638
Tensile strength @break	MPa	22	D-638
Tensile elongation @break	%	1200	D-638
Izod impact	J/m	69	D-256
Hardness (shore D)	-	69	D-2240
ESCR (100%Igepal), F ₅₀	Hrs.	6	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 M40064 are:

Barrel temperature °C (°F) = 232 - 260 (450 - 500)

Mold temperature °C (°F) = 20 - 40 (70 - 104)

Injection pressure MPa (Psi) = 93 - 103 (13500 - 15000)

Food Regulation

Certificate is available on request.