

M500026

LLDPE for Injection Molding

M500026 is a high flow injection molding grade Linear Low Density Polyethylene (LLDPE) copolymer of narrow molecular weight distribution. It has been designed to have excellent low temperature toughness, stress crack resistance, moldability and gloss.

Typical Applications

M500026 resin is recommended for injection molding of containers and closure lids. It is well-suited for fast cycle, deep draw injection molding applications which take advantage of its high flow properties. Also, the higher melting point of the material allows for high-end use temperature when compared with conventional polyethylene of equal density.

Physical Properties	Unit	Value ⁽¹⁾	Test Method
Melt index	g/10 min.	50	D-1238
Density	g/cm ³	0.926	D-1525
Vicat softening point	°C	88	D-1525
Brittleness temperature	°C	< -75	D-746
Secant modulus @1%elongation	MPa	354	D-638
Tensile strength @yield	MPa	13	D-638
Tensile strength @break	MPa	12	D-638
Tensile elongation @break	%	120	D-638
Izod impact (notched)	J/m	450	D-256
Hardness (shore D)	-	55	D-2240
ESCR (100%Igepal), F ₅₀	Hrs.	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 M500026 are:

Barrel temperature °C (°F) = 180-230 (355-446)

Mold temperature °C (°F) = 5-30 (40-85)

Food Regulation

Certificate is available on request.

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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