

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.

Saudi Basic Industries Corporation
P.O.Box 5101, Riyadh 11422
Kingdom of Saudi Arabia
Tel: 966 1 2258000
Fax: 966 1 2259000
Customers Technical Support
Tel: 966 1 2651661
Fax: 966 1 2653544
Toll-free 800 1245577
PE Sales:
Fax: 966 1 2258760
Website: www.sabic.com

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.