

Marlex® HMN 6060

High Density Polyethylene

This hexene copolymer is tailored for injection moulding applications that require:

- Moderate flow
- Good impact strength
- Excellent stiffness
- Durable and recyclable for sustainability

This resin meets these specifications:

- ASTM D4976 – PE 243
- FDA 21 CFR 177.1520(c) 3.2a
- Commission Regulation (EU) No 10/2011 and its Amendments

Typical injection moulded applications for HMN 6060 include items such as:

- Crates
- Tote boxes
- Structural foam (with proper foaming agent)

For a Material Safety Data Sheet (MSDS), visit our site at www.saudipolymers.com

| Nominal Resin Properties ^(1,2) | Value (SI Units) | Method |
|---|-------------------------|------------|
| Density | 0.963 g/cm ³ | ASTM D1505 |
| Melt Index , Condition 190/2.16 kg | 6.0 g/10 min | ASTM D1238 |
| Tensile Strength at Yield , 50.8 mm/min, Type IV bar | 33 MPa | ASTM D638 |
| Elongation at Break , 50.8 mm/min, Type IV bar | 990% | ASTM D638 |
| Flexural Modulus , Tangent, 16:1 span:depth, 12.7 mm/min | 2500 MPa | ASTM D790 |
| Flexural Modulus , 1% Secant, 16:1 span:depth, 12.7 mm/min | 1670 MPa | ASTM D790 |
| ESCR , Condition B (100% Igepal), F ₅₀ | <20 hrs | ASTM D1693 |
| Durometer Hardness , Type D (Shore D) | 66 | ASTM D2240 |
| Vicat Softening Temperature , Loading 1, Rate A | 127°C | ASTM D1525 |
| Heat Deflection Temperature , 0.46 MPa, Method A | 87°C | ASTM D648 |
| Heat Deflection Temperature , 1.82 MPa, Method A | 52°C | ASTM D648 |
| Brittleness Temperature , Type A, Type I specimen | <-75°C | ASTM D746 |
| Izod Impact, notched , 23°C | 38 J/m | ASTM D256 |

1. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded.
2. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

Revision Date April 2012



Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Saudi Polymers Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as any international laws which may be encountered in the use thereof. Such questions should be investigated by the user.

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