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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® HXM 50100P Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This extra high molecular weight, ethylene-hexene copolymer is tailored for large blow moulded and thermoformed parts that require:

- Good melt strength
- Good rigidity
- Excellent ESCR
- Excellent low temperature impact strength
- Durability
- Recyclability

Typical blow moulded applications for HXM 50100P include:

- Shipping containers
- Jerry cans
- Fuel containers
- Agricultural chemical tanks

Typical thermoformed applications for HXM 50100P include:

- Pallets
- Automotive dunnage
- Truck bedliners
- Playground equipment

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per Table 2 of 21 CFR 176.170(c)

For a safety data sheet (SDS), visit our site at www.saudipolymers.com

Nominal Resin Properties[1]	Value (SI Units)	Method
Density	0.948 g/cm^3	ASTM D1505
Flow Rate (HLMI, 190 °C/21.6 kg)	10.0 g/10 min	ASTM D1238
Tensile Strength at Yield, 50.8 mm/min, Type IV bar	25 MPa	ASTM D638
Elongation at Break, 50.8 mm/min, Type IV bar	700 %	ASTM D638
Flexural Modulus, Tangent, 16:1 span:depth, 12.7 mm/min	1,200 MPa	ASTM D790
ESCR, Condition B (100 % Igepal), F_{50}	> 600 h	ASTM D1693
Durometer Hardness, Type D (Shore D)	68	ASTM D2240
Vicat Softening Temperature, Loading 1, Rate A	126 °C	ASTM D1525
Heat Deflection Temperature, 66 psi, Method A	78 °C	ASTM D648
Brittleness Temperature, Type A, Type I specimen	< -75 °C	ASTM D746
Tensile Impact, Type S bar	190 kJ/m^2	ASTM D1822

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. The physical properties were determined on compression moulded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

Revision Date: January, 2017