Marlex® HMN 6060

High Density Polyethylene

Saudi Polymers Company

Message:

This hexene copolymer is tailored for injection moulding applications that require:
Moderate flow
Good impact strength
Excellent stiffness
Durable and recyclable for sustainability
Typical injection moulded applications for HMN 6060 include items such as:
Crates
Tote boxes
Structural foam (with proper foaming agent)

General Information	
Features	Rigidity, high Copolymer hexene comonomer Impact resistance, good Foamable property Recyclable materials Medium liquidity Durability Compliance of Food Exposure
Uses	Structural Foam Tools/Parts Box Loading box
Agency Ratings	ASTM D 4976-PE243 FDA 21 CFR 177.1520(c) 3.2a Europe No 10/2011
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.963	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	< 20.0	hr	ASTM D1693B

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	66		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (Yield, Compression Molded)	33.0	MPa	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	990	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: Molding	1670	MPa	ASTM D790
Tangent: Molding	2500	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, Compression Molded)	38	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, unannealed, molded	87.0	°C	ASTM D648A
1.8 MPa, unannealed, molded	52.0	°C	ASTM D648A
Brittleness Temperature [3]	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	127	°C	ASTM D1525 [4]

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

NOTE	
1.	Type 4, 51mm/min
2.	Type 4, 51mm/min
3.	Type I specimen
4.	速率 A (50°C/h), 压 力1 (10N)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China