

Marlex® HMN 6060UV

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
- Strong UV resistance

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

- Crates (indoor and outdoor use)
- Tote boxes
- Structural foam (with proper foaming agent)

General Information			
Features	Rigidity, high		
	Copolymer		
	hexene comonomer		
	Impact resistance, good		
	Good UV resistance		
	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)	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, unannealed, molded	81.0	°C	ASTM D648A
1.8 MPa, unannealed, molded	51.0	°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)

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