Marlex® HMN 55180UV

High Density Polyethylene

Saudi Polymers Company

Message:

This hexene copolymer is tailored for injection moulding applications that require:
Good flow
Good impact strength
Good stiffness
Durable and recyclable for sustainability
Strong UV resistance
Typical injection moulded applications for HMN 55180UV include items such as:
Pails (3-9 liter - indoor and outdoor use)
Automotive applications
Toys
Small containers for industrial compounds
Houseware

General Information	
Features	Rigid, good Copolymer hexene comonomer Impact resistance, good Good UV resistance Recyclable materials Good liquidity Durability Compliance of Food Exposure
Uses	Industrial container Household goods Application in Automobile Field Barrel Toys
Agency Ratings	ASTM D 4976-PE232 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	0.958	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	18	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)	63		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, Compression Molded)	29.0	MPa	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	140	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: Molding	1250	MPa	ASTM D790
Tangent: Molding	1380	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, Compression Molded)	26	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, unannealed, molded	75.0	°C	ASTM D648A
1.8 MPa, unannealed, molded	50.0	°C	ASTM D648A
Brittleness Temperature [3]	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	124	°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)

Recommended distributors for this material

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WECHAT