

Technical Data

Product Description

Moplen HP456J is used in extrusion and thermoforming applications. It is formulated with a low water-carry-over additive package. Typical applications are monofilaments, ropes and tapes. For regulatory information please refer to Moplen HP456J Product Stewardship Bulletin (PSB).

General

Material Status	• Commercial: Active		
Literature <sup>1</sup>	<ul style="list-style-type: none"> <li>• Processing - Extrusion (English)</li> <li>• Processing - Injection Molding (English)</li> <li>• Processing - Mold Shrink (English)</li> <li>• Technical Datasheet (English)</li> </ul>		
Search for UL Yellow Card	<ul style="list-style-type: none"> <li>• LyondellBasell Industries</li> <li>• Moplen</li> </ul>		
Availability	• Africa & Middle East	• Europe	
Features	• Good Stretchability	• Homopolymer	• Low Water Carryover
Uses	• Agricultural Applications	• Rope	• Tape
	• Monofilaments	• Strapping	
Forms	• Pellets		
Processing Method	• Extrusion	• Thermoforming	

Physical	Nominal Value Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.4 g/10 min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1500 MPa	ISO 527-2
Tensile Stress (Yield)	34.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield	10 %	
Break	> 50 %	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	190 kJ/m <sup>2</sup>	ISO 179/1eU

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 358/30)	74.0 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature 0.45 MPa, Unannealed	97.0 °C	ISO 75-2/B
--	154 °C	ISO 306/A50
--	92.0 °C	ISO 306/B50

Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.



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Where to Buy

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Supplier

**LyondellBasell Industries**  
Wilmington, DE USA  
**Telephone:** 713-309-7200  
**Web:** <http://polymers.lyondellbasell.com/portal/site/basell/>

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Distributor

**Ultrapolymers**  
*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*  
**Telephone:** +32-11-57-95-57  
**Web:** <http://www.ultrapolymers.com/>  
**Availability:** Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom

