



Moplen HP456J

Polypropylene, Homopolymer

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Method	Tapes & Raffia, Extrusion Thermoforming
Features	Homopolymer, Low Water Carryover, Good Stretchability
Typical Customer Applications	Raffia/Tapes/Strapping, Artificial Grass, Geotextile & Agriculture

Typical Properties	Method	Value	Unit
Physical			
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	3.4	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	4.6	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1500	MPa
Tensile Stress at Yield	ISO 527-1, -2	34	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	10	%
Impact			
Charpy unnotched impact strength (23 °C, Type 1, Edgewise)	ISO 179	190	kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	4.0	kJ/m ²
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	74	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	97	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		154	°C
(B50 (50°C/h 50N))		92	°C

Notes

Typical properties; not to be construed as specifications.

© LyondellBasell Industries Holdings, B.V. 2010

For the contact details of the LyondellBasell company selling this product in your country, please visit <http://www.lyondellbasell.com/>.

Before using a product sold by one of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF

MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OTHER THAN AS SEPARATELY AGREED BETWEEN THE PARTIES IN WRITING. This product(s) may not be used in the manufacture of any US FDA Class III Medical Device or Health Canada Class IV Medical Device and may not be used in the manufacture of any US FDA Class II Medical Device or Health Canada Class II or Class III Medical Device without the prior written approval by Seller of each specific product or application.

Users should review the applicable Material Safety Data Sheet before handling the product.

Adflex, Adstif, Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Alkylate, Aquamarine, Aquathene, Arconate, Arcopure, Arcosolv, Arctic Plus, Arctic Shield, Avant, Catalloy, Clyrell, CRP, Crystex, Dexflex, Duopac, Duoprime, Duotreat, Filmex, Flexathene, Get in touch with, Glacido, Glidox, Glidsol, Hifax, Histif, Hostacom, Hostalen PP, Hostalen ACP, Ideal, Indure, Integrate, Koattro, LIPP, Lucalen, Luflexen, Lupocomp, Lupolen, Lupolex, Luposim, Lupostress, Lupotech, Metocene, Microthene, Moplen, MPDIOL, Navacet, Nerolex, Nexprene, Petrothene, Plexar, Polymeg, Pristene, Pro-Flex, Punctilious, Purell, SAA 100, SAA 101, Sequel, Softell, Spherilene, Spheripol, Spherizone, Starflex, Stretchene, Superflex, TBAC, Tebol, Tetralol, T-Hydro, Toppyl, Trans4m, Tufflo, Ultrathene, Vacido, Valtec, and Winsense are trademarks owned and/or used by LyondellBasell group companies.

Akoafloor, Akoalit, Alastian, Alathon, Aquamarine, Arconate, Arcopure, Arcosolv, Arctic Plus, Arctic Shield, Avant, Clyrell, CRP, Crystex, Dexflex, Duopac, Duoprime, Filmex, Flexathene, Glidox, Glidsol, Hifax, Hostacom, Hostalen, Ideal, Indure, Integrate, Koattro, Lucalen, Lupolen, Microthene, Moplen, MPDIOL, Nexprene, Petrothene, Plexar, Polymeg, Pristene, Pro-Fax, Punctilious, Purell, Sequel, Spheripol, Spherizone, Softell, Starflex, Tebol, Tetralol, T-Hydro, Toppyl, Tufflo, Ultrathene, and Winsense are registered in the U.S. Patent and Trademark Office.

Release Date: 16 Oct 2009