

Moplen HP500N

PP HOMO

LyondellBasell Industries

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index	12	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	2.16	kg	-
Density, 73°F	900	kg/m³	ASTM D 792

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt Flow Index, MFI	12	g/10min	ISO 1133
MFI temperature	230	°C	-
MFI load	2.16	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1400	MPa	ISO 527
Yield stress	35	MPa	ISO 527
Yield strain	10	%	ISO 527
Strain at Break	>50	%	ISO 527
Notched Impact Strength (Charpy), +23°C	4	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Strength at Yield	34	MPa	ASTM D 638
Elongation at Yield	10	%	ASTM D 638
Flexural Modulus	1480	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	25	J/m	ASTM D 256

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (0.45 MPa)	95	°C	ISO 75-1/-2
Vicat softening temperature A	153	°C	ISO 306
Vicat softening temperature, 50°C/h 50N	85	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	97	°C	ASTM D 648

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	900	kg/m³	ISO 1183

Characteristics

Processing

Injection Molding, Blow Molding

Features

Homopolymer

Certifications

Food approval

Applications

General Purpose, Packaging