

Moplen HP450J

Polypropylene Homopolymer

PolyMirae

Message:

Moplen HP450J is the polypropylene homopolymer manufactured by PMC under the license of BASSELL using the Spheripol process.
Moplen HP450J is a homopolymer typically used by customers for Raffia and Yarn applications.

General Information			
Features	Good Processability		
	Good Stretchability		
	Homopolymer		
Uses	BCF Yarn		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.3	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	36.3	MPa	ASTM D638
Yield, 23°C	32.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	11	%	ASTM D638
Yield, 23°C	11	%	ISO 527-2/50
Flexural Modulus			
--	1520	MPa	ASTM D790
--	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (0°C)	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	33	kJ/m ²	
23°C	90	kJ/m ²	
Notched Izod Impact (23°C)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	104	°C	ASTM D648
Vicat Softening Temperature	153	°C	ISO 306/A50

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