Technical Data Sheet

Moplen HP3221

Polypropylene, Homopolymer

Product Description

Moplen HP3221 is a homopolymer used for general purpose injection moulding and compounding applications. It exhibits good flow and stiffness.

This grade is not intended for medical and pharmaceutical applications.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe
Application	Furniture; Housewares
Market	Compounding; Consumer Products; Rigid Packaging
Processing Method	Compounding; Injection Blow Molding
Attribute	Medium Flow; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/2.16 kg)	12	g/10 min	ISO 1133-1
(230 °C/2.16 kg)	12	g/10 min	ASTM D1238
Density	0.90	g/cm³	ASTM D792
Mechanical			
Flexural Modulus	1480	MPa	ASTM D790
Tensile Modulus	1550	MPa	ISO 527-1, -2
Tensile Strength at Yield	34	MPa	ASTM D638
Tensile Stress at Yield	35	MPa	ISO 527-1, -2
Tensile Elongation at Yield	10	%	ASTM D638
Tensile Strain at Break	> 50	%	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	3	kJ/m²	ISO 179
Notched Izod Impact Strength, (23 °C)	25	J/m	ASTM D256
Thermal			
Vicat Softening Temperature			
(A/50 N)	153	°C	ISO 306
(B50)	85	°C	ISO 306
Deflection Temperature Under Load, (0.46 N/mm²)	97	°C	ASTM D648
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	95	°C	ISO 75B-1, -2