



Moplen HP401R

Polypropylene, Homopolymer

Product Description

Moplen HP401R is a homopolymer suitable for injection moulding applications. It exhibits a high fluidity combined with a good stiffness. Moplen HP401R is suitable for food contact.

Product Characteristics

Test Method used	ISO
Processing Methods	Injection Molding
Features	High Flow , Homopolymer, Good Stiffness
Typical Customer Applications	Furniture, Housewares

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.905	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	25	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	34	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1350	MPa
Tensile Stress at Yield	ISO 527-1, -2	32	MPa
Tensile Strain at Break	ISO 527-1, -2	> 50	%
Tensile Strain at Yield	ISO 527-1, -2	10	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		105	kJ/m ²
(0 °C, Type 1, Edgewise)		25	kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	2	kJ/m ²
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	70	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°C
Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		85	°C
(A50 (50°C/h 10N))		154	°C