Moplen HP400H

Polypropylene, Homopolymer

Product Description

Moplen HP400H is a homopolymer for extrusion applications. *Moplen* HP400H exhibits easy processability and a good stiffness/impact balance at ambient temperature. The main applications of *Moplen* HP400H are thermoformed tubs and containers, medium draw trays and blister packs, flowerpots and small extrusion blow moulded bottles. It is suitable for compounding.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Extrusion Compounding, Extrusion Blow Molding, Extrusion Thermoforming
Typical Customer Applications	Caps & Closures, Housewares, Opaque Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	2	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	2.7	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1400	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	11	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		No Break	kJ/m²
(0 °C, Type 1, Edgewise)		90	kJ/m²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	4	kJ/m²
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	80	°C
Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		80	°C
(A50 (50°C/h 10N))		150	°C
Optical			
Haze (1 mm)	ASTM D 1003	45	%
Gloss (60°)	ASTM D 2457	107	%

Notes

Typical properties; not to be construed as specifications.