

Technical Data Sheet

Moplen HP456K



Polypropylene, Homopolymer

Product Description

Moplen HP456K is a polypropylene homopolymer used for extrusion and thermoforming applications. Moplen HP456K is formulated with a low water-carry-over additive package. Typical applications are monofilaments, ropes and tapes.

The grade is being in development, this is a preliminary datasheet subjected to changes after product industrialization

Regulatory Status

This grade is not intended for medical and pharmaceutical applications.

Application	General Sheet Extrusion; Intermediate Bulk Containers; Raffia/Tapes/Strapping
Market	Compounding; Flexible Packaging; Industrial Packaging; Rigid Packaging; Textile
Processing Method	Compounding; Extrusion Flat-die; Tapes & Raffia; Thermoforming
Attribute	Homopolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	4.5	g/10 min	ISO 1133-1
Density	0.900	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1450	N/mm ²	ISO 178
Tensile Modulus	1500	MPa	ISO 527-1, -2
Tensile Stress at Break, (23 °C, 50 mm/min)	16.4	N/mm ²	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	34.5	N/mm ²	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	73	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	9.2	%	ISO 527-1, -2
Thermal			
Vicat Softening Temperature, (A50)	156	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	83	°C	ISO 75B-1, -2