

Technical Data Sheet

Moplen HP452J



Polypropylene, Homopolymer

Product Description

Moplen HP452J is a polypropylene homopolymer used for extrusion applications. Moplen HP452J is formulated with an anti-gasfading stabilisation package and is used for the production of high-tenacity staple fibres. Typical application is nonwovens.

Regulatory Status

For regulatory compliance information, see Moplen HP452J [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Filament Yarn; Furniture; Furniture & Buildings; Geotextile & Agriculture; Nonwovens
Market	Textile
Processing Method	Continuous Filament/Spinning; Fibers; Staple Fiber
Attribute	Gas-fading Resistant; Homopolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	3.4	g/10 min	ISO 1133-1
Density	0.900	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1400	N/mm ²	ISO 178
Tensile Stress at Break, (23 °C, 50 mm/min)	23	N/mm ²	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	34	N/mm ²	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	700	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	11	%	ISO 527-1, -2
Thermal			
Vicat Softening Temperature, (A50)	153	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2

Notes

These are typical property values not to be construed as specification limits.