Technical Data Sheet

Moplen HP552K

Polypropylene, Homopolymer

Product Description

Moplen HP552K is a polypropylene homopolymer used for extrusion applications. *Moplen* HP552K is formulated with an anti-gasfading stabilisation package and is used for the production of high-tenacity staple fibres. Typical application is nonwovens.

This grade is not intended for medical and pharmaceutical applications.

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)	4	g/10 min	ISO 1133-1
Density	0.900	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	1400	N/mm²	ISO 178
Tensile Stress at Break, (23 °C, 50 mm/min)	23	N/mm²	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	34	N/mm²	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	400	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	11	%	ISO 527-1, -2
Thermal			
Vicat Softening Temperature, (A50)	155	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	85	°C	ISO 75B-1, -2