



Moplen HP552K

Polypropylene, Homopolymer

Product Description

Moplen HP552K is used in extrusion applications. It is formulated with an anti-gasfading stabilisation package. Moplen HP552K is used in the production of high-tenacity staple fibres. Typical application is nonwovens. For regulatory information please refer to Moplen HP552K Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Continuous Filament/Spinning, Staple Fibre
Features	Homopolymer
Typical Customer Applications	Nonwoven Staple Fibres, Staple Fiber

Typical Properties	Method	Value	Unit
Physical			
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	4	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	23	N/mm ²
Tensile Stress at Yield	ISO 527-1, -2	34	N/mm ²
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	11	%
Flexural modulus	ISO 178	1400	N/mm ²
Impact			
Charpy unnotched impact strength	ISO 179	220	kJ/m ²
Charpy notched impact strength	ISO 179	8	kJ/m ²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		153	°C
(B50 (50°C/h 50N))		93	°C

Notes

Typical properties; not to be construed as specifications.