

Technical Data Sheet

Moplen HP3816



Polypropylene, Homopolymer

Product Description

Moplen HP3816 is a polypropylene homopolymer used for extrusion applications. *Moplen* HP3816 has a very narrow molecular weight distribution and is formulated with an anti-gasfading stabilisation package. *Moplen* HP3816 is designed for production of continuous filaments. Typical applications are HTY and spunbond nonwoven. The grade being in development, this is a preliminary datasheet subjected to change after product industrialization.

This grade is not intended for medical and pharmaceutical applications.

Application	Filament Yarn; Furniture & Buildings; Geotextile & Agriculture; Hygiene Nonwoven; Protective Clothes
Market	Textile
Processing Method	Continuous Filament/Spinning; Extrusion Coating; Spunbond
Attribute	Controlled Rheology; Gas-fading Resistant; Homopolymer; Narrow Molecular Weight Distribution

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	36	g/10 min	ISO 1133-1
Density	0.900	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1300	MPa	ISO 527-1, -2
Tensile Stress at Break	>50	MPa	ISO 527-1, -2
Tensile Stress at Yield	33	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	11	%	ISO 527-1, -2
Thermal			
Vicat Softening Temperature, (A50)	151	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	85	°C	ISO 75B-1, -2