Technical Data Sheet

Moplen HP462R

Polypropylene, Homopolymer

Product Description

Moplen HP462R is a polypropylene homopolymer used for extrusion applications. *Moplen* HP462R has a very narrow molecular weight distribution and is formulated with an anti-gasfading stabilisation package. *Moplen* HP462R is used for the production of continuous filaments. Typical applications are high-tenacity yarns (HTY) and spunbond nonwovens.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe
Application	Filament Yarn; Geotextile & Agriculture; Hygiene Nonwoven
Market	Textile
Processing Method	Continuous Filament/Spinning; Spunbond
Attribute	Homopolymer; Narrow Molecular Weight Distribution

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	25	g/10 min	ISO 1133-1
Density	0.900	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	1300	N/mm²	ISO 178
Tensile Stress at Break, (23 °C, 50 mm/min)	20	N/mm²	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	33	N/mm²	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	650	%	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)	86	°C	ISO 75B-1, -2

Manufacturer website: https://www.lyondellbasell.com/en/