



## Moplen HP462R

### Polypropylene, Homopolymer

#### Product Description

Moplen HP462R is used in extrusion applications. It has a very narrow molecular weight distribution and it is formulated with an anti-gasfading stabilisation package. Moplen HP462R is used in the production of continuous filaments. Typical applications are high-tenacity yarns (HTY) and spunbond nonwovens. For regulatory information please refer to Moplen HP462R Product Stewardship Bulletin (PSB).

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Asia-Pacific, Africa-Middle East
<b>Processing Methods</b>	Continuous Filament/Spinning, Spun Bond
<b>Features</b>	Homopolymer, Narrow Molecular Weight Distribution
<b>Typical Customer Applications</b>	Filament Yarn, Nonwoven Spunbond

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	25	g/10 min
<b>Mechanical</b>			
Tensile Stress at Break	ISO 527-1, -2	20	N/mm <sup>2</sup>
Tensile Stress at Yield	ISO 527-1, -2	33	N/mm <sup>2</sup>
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	11	%
Flexural modulus	ISO 178	1300	N/mm <sup>2</sup>
<b>Impact</b>			
Charpy unnotched impact strength	ISO 179	140	kJ/m <sup>2</sup>
Charpy notched impact strength	ISO 179	4	kJ/m <sup>2</sup>
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	86	°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.