

Technical Data Sheet

Moplen HP452J



Polypropylene, Homopolymer

Product Description

Moplen HP452J is a polypropylene homopolymer used for extrusion applications. Moplen HP452J is formulated with an anti-gasfading stabilisation package and is used for the production of high-tenacity staple fibres. Typical application is nonwovens.

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|--------------------------|--|
| Status | Commercial: Active |
| Availability | Africa-Middle East; Europe |
| 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) | 3.4 | g/10 min | ISO 1133-1 |
| Density | 0.900 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Flexural Modulus | 1400 | N/mm ² | ISO 178 |
| Tensile Stress at Break, (23 °C, 50 mm/min) | 23 | N/mm ² | ISO 527-1, -2 |
| Tensile Stress at Yield, (23 °C, 50 mm/min) | 34 | N/mm ² | ISO 527-1, -2 |
| Tensile Strain at Break, (23 °C, 50 mm/min) | 700 | % | 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) | 90 | °C | ISO 75B-1, -2 |