

Technical Data Sheet : KeyForm P1111

Polypropylene, Homopolymer

Product Description

The polymer grade is a polypropylene homopolymer used for extrusion applications, with a very narrow molecular weight distribution and is formulated with an anti-gasfading stabilisation package. Typically used for the production of high-tenacity filaments and spunbond nonwovens.

Information regarding regulatory status, including supported, prohibited, or restricted applications, is provided in the **Product Regulatory Summary** and the **Safety Data Sheet (SDS)**.

General

Applications	Absorption & Filtration; Filament Yarn; Furniture & Buildings; Geotextile & Agriculture; Hygiene Nonwoven; Nonwovens; Wipes/Tissues
Market	Textile
Processing Method	Continuous Filament/Spinning; Fibers; Spunbond
Attribute	Controlled Rheology; Gas-fading Resistant; High Strength; Homopolymer; Narrow Molecular Weight Distribution
Internal ref. number	1Q220, BEN13388
Revision	Version 1.1 ; June 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	ISO 1133-1
Density	0.9	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1150	N/mm ²	ISO 178
Tensile Stress at Break, (23 °C, 50 mm/min)	21	N/mm ²	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	33	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)	74	°C	ISO 75B-1, -2

*)These are typical property values not to be construed as specification limits.

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.



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