

HP554N

Homopolymer

Description:

HP554N is a polypropylene homopolymer designed for the production of fine denier staple fibers for nonwoven, thermobonded fabrics and offers outstanding spinnability, superior thermobonding and excellent antigasfading properties. Fabrics made with HP554N are characterized by softness, textile-like appearance and high tear resistance. In comparison with standard polypropylene types for thermobonding applications, HP554N offers some distinct advantages. The processability with the long-spinning technology is outstanding, resulting in high and uniform fiber quality and less down-time. A broad thermal bonding window is achieved, which facilitates start-up and adjustments of the plant, and it shows a 20 to 30 % increase in thermal bonding ability. This makes it possible to produce fabrics with a higher tear strength or with a lower weight per square meter for the same strength.

Typical Applications

- Fabrics for feminine care products, diapers, incontinence pads, medical disposables, wipes and other applications in the hygienic and medical sector
- Filters and fabrics for the automotive, clothing and furniture industry
- Fine denier staple fiber

Features: Good spinnability, Superior thermobonding properties, Excellent antigasfading properties, High tear resistance

Suitable for: Fiber Extrusion

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	12	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
Flexural Modulus	1550	MPa	ASTM D790
Tensile Strength at Yield	34	MPa	ASTM D638
Tensile Elongation at Yield	12	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	30	J/m	ASTM D256
Rockwell Hardness	102	R Scale	ASTM D785
Vicat softening point (10 N)	154	°C	ASTM D1525
H.D.T. (0.46 MPa)	95	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	150	h	ASTM D3012

* Typical values; not to be considered as product specification.