PP

PP Y40

POLYPROPYLENE HOMOPOLYMER FIBER GRADE (PP)

This is a controlled-rheology fiber-grade polypropylene homopolymer produced via peroxide-degradation of a low-melt-index base resin. It is characterized by a narrow molecular weight distribution, low ash content, and good spinnability, and is mainly used as a raw material for decorative and medical/public-health textile applications.

Typical Application	Product Characteristics
• Non-woven clothing	• Narrow molecular weight distribution
• Short fibers	• Low ash content
• Ultra-fine staple fibers	• Good spinnability

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (230°C/2.16kg)		36	g/10 min
Tensile Strength at Yield		31.3	MPa
Tensile Strength at Break		18.7	MPa
Tensile Modulus		1330	MPa
Ash Content		0.017	%
Isotactic Index		97.5	%

1. Values shown are typical (not warranted) performance values; the producer's quality-index specification limits are MFR 37±7.0 g/10 min, tensile strength at yield ≥31.0 MPa, tensile strength at break ≥8.0 MPa, tensile modulus ≥1200 MPa, ash ≤0.030%, isotactic index ≥96.0%.
2. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.