



## Polyintec® PPH4209A

Homopolymer Polypropylene (PPH)

### Product Description:

Polyintec® PPH4209A is a homopolymer polypropylene designed for extrusion processes, particularly in applications requiring low water carry-over. It provides excellent processability and consistent performance. Key characteristics include good tensile strength and stiffness. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(c)1.1a.

### Suggested Applications:

Carpet Backing, Woven Bags, Twine.

### Nominal Physical Properties:

Property	Nominal Value (English)	Nominal Value (SI)	Method
Density	0.906 g/cc	0.906 g/cc	D792
Melt Flow Rate (230°C/2.16kg)	4.2 g/10 min	4.2 g/10 min	D1238
Tensile Strength @ Yield	5,280 psi	36.2 MPa	D638
Tensile Strength @ Break	2,640 psi	18.1 MPa	D638
Elongation @ Yield	9.5%	9.5%	D638
Elongation @ Break	150%	150%	D638
Flexural Modulus (1% Secant)	240,000 psi	1,650 MPa	D790A
Notched Izod Impact Strength	0.7 ft-lbf/in	2.6 kJ/m <sup>2</sup>	D256
Hardness (Rockwell R)	103	103	D785

### Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. The information is offered solely for your consideration, investigation, and verification. Users should perform their own tests to determine the suitability of this product for their particular purpose. No warranty of any kind, express or implied, is made, including merchantability or fitness for a particular purpose. Liability is limited to the purchase price of the material. Statements are not to be construed as recommending the infringement of any patent.