

HIPOL™ F401

Polypropylene Homopolymer
Mitsui Chemicals, Inc.

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Technical Data

Product Description

HIPOL™ F401 is a Polypropylene Homopolymer (PP Homopolymer) material. It is available in Asia Pacific for extrusion.

Important attributes of HIPOL™ F401 are:

- Good Processability
- Homopolymer
- Rigid

Typical applications include:

- Fabrics/Fibers
- Nonwovens
- Straps/Ropes
- Yarn

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Good Moldability • High Rigidity • Homopolymer
Uses	• Carpet Backing • Monofilaments • High Tenacity Flat Yarn • Rope
Forms	• Pellets
Processing Method	• Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.910 g/cm³	0.910 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.4 g/10 min	2.4 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	5400 psi	37.3 MPa	
Break	4980 psi	34.3 MPa	
Tensile Elongation (Break)	500 %	500 %	ASTM D638

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
32°F (0°C)	0.46 ft·lb/in	25 J/m	
73°F (23°C)	0.73 ft·lb/in	39 J/m	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	230 °F	110 °C	
264 psi (1.8 MPa), Unannealed	140 °F	60.0 °C	
Vicat Softening Temperature	311 °F	155 °C	ASTM D1525

Notes

¹ Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

Mitsui Chemicals, Inc.

Tokyo, Japan

Telephone: 81-3-6253-2100

Web: <http://www.mitsui-chem.co.jp/>

Distributor

Please contact the supplier to find a distributor for HIPOL™ F401

