

PRODUCT DESCRIPTION

PP H1045 is a Polypropylene Homopolymer with a Melt Flow Rate (MFR) of 4.5 g/10min. PP H1045 is designed for high extrusion speed lines to make stretch tapes, offering low watercarry-over and low shrinkage. Good balance of strength, shrinkage, splitting tendency. It is compliant

TRPICAL APPLICATION

Weaving tapes for carpet backing, geo-textiles, woven bags and industrial and sport fabrics propagation and slow crack growth.

TYPICAL DATA

Physical	Method	Unit	Value
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	g/10min	4.5
Melting Temperature	ISO 11357-3	°C	163
Vicat Softening Temperature	ISO 306	°C	152
Heat Distortion Temperature @ 0.45 MPa	ISO 75-2	°C	85
Density	ISO 1183	g/cm ³	0.9

Mechanical	Method	Unit	Value
Tensile Strength @ Yield	ISO 527-2	MPa	34
Tensile Elongation @ Yield	ISO 527-2	%	9
Flexural Modulus (1% Secant)	ISO 178	MPa	1500
Charpy Impact Strength (Notched) at 23 °C	ISO 179/1eA	KJ/m ²	3.5
Rockwell Hardness	ISO 2039-2	R	100

Typical Processing Conditions

Extrusion Temperatures		200 ~ 260 °C
Water Bath Temperature		15 ~ 40 °C
Orientation Temperatures	Hot plate	100 ~ 140 °C
	Hot rolls	100 ~ 140 °C
	Oven air	140 ~ 180 °C
Draw Ratio		1:6 to 1:8
Annealing Temperature		150 ~ 170 °C

NOTE Processing parameters should only be used as guidelines. The above properties values are not to be construed as specifications.