

## Polypropylene H 503HS

### Sub-group:

Homopolymer

### Description:

H 503HS is a low melt flow rate homopolymer for general purpose. Designed for raffia extrusion. This product exhibits an excellent processability, high speed production with good melt stability, good stiffness/impact strength balance and low odor and flavor transfer.

### Applications:

Monofilament for ropes; Fishing nets; Cables for boats; Bristles for tooth brushes and brooms; Industrial bags; Big bags; Carpet backing; Curtains and covers to aviary and agriculture.

### Processing:

Fiber Extrusion

Raffia Extrusion

### Control Property:

	ASTM Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	D 1238	g/10 min	4.0

### Typical Properties<sup>a</sup>:

	ASTM Method	Units	Values
Density	D 792	g/cm <sup>3</sup>	0.905
Flexural Modulus – 1% secant	D 790	MPa	1300
Tensile Strength at Yield	D 638	MPa	35
Tensile Elongation at Yield	D 638	%	9
Rockwell Hardness (R Scale)	D 785	-	103
Notched Izod Impact Strength at 23°C	D 256	J/m	35
Deflection Temperature under Load at 0.455 MPa	D 648	°C	98
Deflection Temperature under Load at 1.820 MPa	D 648	°C	55
Vicat Softening Temperature at 10 N	D 1525	°C	155

a) Injection molded specimen according to ASTM D 4101.

