

Producer: Braskem / Brazil

## H 503

### Description:

**H 503** is a low melt flow rate homopolymer with general purpose additive package. Designed for injection molding, raffia extrusion, bioriented film and general extrusion. This product exhibits excellent processability, good melt stability, good stiffness/impact strength balance and low odor and flavor transfer.

### Applications:

Flip-top and resealable closures; Thick wall parts; Domestic appliances; Industrial bags; Big bags; Compounds; Curtains and covers to aviary and agriculture; Monofilament for ropes; Fishing nets; Cables for boats; Bristles for tooth brushes and brooms.

### Processing:

Injection Moulding, Raffia Extrusion and Fiber Extrusion

DESCRIPTION OF PROPERTIES	ASTM METHOD	UNITS	VALUES
<b>Control Property</b>			
MFR @ 230°C , 2.16 Kg	D-1238	g/10min	3.5
<b>Typical Properties<sup>a</sup></b>			
Density	D 792	g/cm <sup>3</sup>	0.905
Flexural Modulus – 1% secant	D790	Gpa	1.4
Tensile Strength at Yield	D 638	Mpa	35
Tensile Elongation at Yield	D-638	%	11
Rockwell Hardness (R Scale)	D 785	-	99
Notched Izod Impact Strength at 23°C	D 256	J/m	39
Deflection Temperature under Load at 0.455 Mpa	D648	°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.

### Final Remarks:

This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA.

The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.

Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.

Braskem polyolefin products do not have additives with metals or other substances on purpose of oxi-degradation. These additives and the decomposition and disintegration of polyolefins caused by oxi-degradation phenomenon can cause environmental pollution, decrease the package performance and increase migration of package constituent to food, compromising resin approval regarding the requirements of ANVISA Resolution 105/99. The use of these additives with Braskem polyolefin products implies immediate loss of performance guarantee described in this data sheet.