

Polibrasil HP501K

Polypropylene Homopolymer

Description

Polibrasil **HP501K** is a low fluidity homopolymer with good balance of stiffness and impact.

Process and Typical Applications

Injection Molding of thick parts, caps, closures, etc.

Food Contact

Polibrasil HP501K complies *Food and Drug Administration (FDA)* requirements for food contacting articles, Code of Federal Regulation Title 21 CFR 177.1520.

Properties ^(a)	Nominal Values	ASTM Test Method
Physical		
Melt Flow Index (230°C/2,16kg)	3,5 g/10min	D-1238
Density (23°C)	0,905 g/cm³	D-792
Mechanical		
Tensile Strength @Yield (50mm/min)	36 MPa	D-638
Elongation @ Yield (50mm/min)	9 %	D-638
Flexural Modulus (1,3mm/min)	1550 MPa	D-790
Notched Izod Impact Strength @ 23°C	50 J/m	D-256
Hardness Shore D (1s)	73	D-2240
Thermal		
Vicat Softening Temperature (10N/Rate A)	154 °C	D-1525
Heat Distortion Temperature (0,45MPa)	105 °C	D-648

(a) Values above report the data obtained in our laboratories, according to the test method mentioned and conditions established by standard specification ASTM D-4101. The values shown are averages and are not to be considered as product specifications. These values may shift slightly as additional data are accumulated.

Attention: The information contained in this Data Sheet, as well as any suggestions and recommendations concerning our products are based on our current knowledge and cannot be taken as guarantee by Suzano Petroquímica S.A., since the conditions of use are beyond our control. Before using a Polibrasil product, customers and other should make their own independent determination that this product is suitable for the intended use; therefore we recommend to conduct appropriate tests for each application, as Suzano Petroquímica S.A. cannot accept liability, including infringement of patent rights.

[Material Safety Data Sheet \(MSDS\)](http://www.polibrasil.com.br) of this product is available at www.polibrasil.com.br