

Polypropylene H 401

Sub-group:

Homopolymer

Description:

H 401 is a medium melt flow rate homopolymer polypropylene, additived with slip and antiblocking agents. Designed specially for cast film. This product features good impact strength, excellent transparency and gloss, good slipping and outstanding weldability.

Applications:

Coil for automatic packaging; Packages for food and textile products.

Processing:

Cast Film Extrusion

Control Property:

	ASTM Method	Units	Values
Melt Flow Rate (230/2.16)	D 1238	g/10 min	7.5

Typical Properties^a:

	ASTM Method	Units	Values
Density	D 792	g/cm ³	0.905
Flexural Modulus – 1% secant	D 790	GPa	1.4
Tensile Strength at Yield	D 638	MPa	33
Tensile Elongation at Yield	D 638	%	13
Rockwell Hardness (R Scale)	D 785	-	98
Notched Izod Impact Strength at 23°C	D 256	J/m	32
Deflection Temperature under Load at 0.455 MPa	D 648	°C	92
Deflection Temperature under Load at 1.820 MPa	D 648	°C	52
Vicat Softening Temperature at 10 N	D 1525	°C	148

a) Injection molded specimen according to ASTM D 4101.

Final Remarks:

1. 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.
2. 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.
3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
4. In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 9003-07-0.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. 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.
8. 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.
9. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.

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Film Properties^{b)}:

	ASTM Method	Units	Values
Secant Modulus 1% (MD/TD)	D 882	MPa	520/520
Tensile Strength at Yield (MD/TD)	D 882	MPa	22/22
Elongation at Yield (MD/TD)	D 882	%	15/12
Haze	D 1003	%	1.9
Gloss 45°	D 2457	-	94
Sealing Initial Temperature	Braskem Method	°C	116

b) 30 µm thickness film, processed in a 50 mm screw diameter extruder with blow up ratio of 1.3:1 (MD=Machine Direction and TD=Transversal Direction)

Final Remarks:

10. 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.
11. 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.
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16. 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.
17. 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.