Polypropylene **KN-501**

Sub-group:
Impact copolymer Polypropylene

Description:
Excellent color and processing stability, excellent long term heat aging properities, wet / dry environment resistance.

Applications:
Suggested uses include automotive, housewares, toys, furniture.
UL approved.

Process:
Injection Molding.

Control Properties:

	ASTM Method	Units	Values
Nominal Melt Flow Rate (230°C/2.16kg)	D-1238	g/10 min	8

Plaque Properties [a]:

	ASTM Method	Units	Values
Tensile strength at yield (2 in/min, 50 mm/min)	D-638	psi / MPa	3,700 / 26
Elongation at yield (2 in/min, 50 mm/min)	D-638	%	6
Flexural Modulus (0.05 in/min, 1.3 mm/min, 1% secant)	D-790A	psi / MPa	170,000 / 1,172
Notched IZOD impact strength at 23°C	D-256A	ft-lbs/in / J/m	2.3 / 123
Gardner impact strength at -29°C (Geomerty GC)	D-5420G	ft-lbs	21

a) Tests made in injection molded plates according to ASTM D-4101 classification.

Final Remarks:

1. This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – *Food and Drugs Administration.* The additives present are covered in appropriate regulation by FDA.
2. These informations reflect 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. The mentioned values in this report can be changed at any moment without Braskem previous communication.
6. 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.
7. 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.