

**Polypropylene RP 145**

**Sub-group:**

Random Copolymer

**Description:**

RP 145 is a high melt index propylene-ethylene random copolymer designed for thin wall injection molding. This product presents outstanding transparency, very good stiffness/impact strength balance, excellent processability, as well as very low odor and flavor transfer.

**Applications:**

Containers for freezer  
Disposable packages with high transparence  
Cosmetic packaging

**Processing:**

Injection Molding

**Control Properties:**

	ASTM Method	Units	Values
Melt Index (230°C/2.16kg)	D-1238-L	g/10 min	40

**Plaque Properties <sup>a</sup>:**

	ASTM Method	Units	Values
Density (23°C)	D-792A	g/cm <sup>3</sup>	0,902
Flexural Modulus	D-790	GPa	1,10
Tensile strength at yield	D-638	MPa	27
Elongation at yield	D-638	%	16
Rockwell Hardness	D-638	MPa	80
Notched IZOD impact strength at 23°C	D-256-A	J/m	44
Notched IZOD impact strength at -20°C	D-256-A	J/m	16
Heat deflection temperature (HDT) at 1820kPa	D-648	°C	51
Heat deflection temperature (HDT) at 455kPa	D-648	°C	79
Vicat softening temperature -1kg	D-1525	°C	128

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. 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's resin do not contain aditives produced from metals or other substances which have the objective to promote oxi degradation. Such aditives and the decomposition and fragmentation of resins caused by the oxi degradation compromise the approval of the resin regarding requirements of the Resolution 105/99 of ANVISA (Brazilian National Agency of Sanitary Monitoring). The use of this aditives implicate the loss of the performance warranties described in this document.