

## Polypropylene EP 448R

**Sub-group:**

Heterophasic Copolymer

**Description:**

EP 448R is a high fluidity heterophasic copolymer with excellent balance of stiffness and impact.

**Applications:**

Injection Molding of thin parts, closures, appliances, toys.

**Processing:**

Injection Molding

**Control Property:**

|                                | ISO Method | Units    | Values |
|--------------------------------|------------|----------|--------|
| Melt Flow Rate (230°C/2.16 kg) | 1133       | g/10 min | 25     |

**Typical Properties<sup>a)</sup>:**

|  | ISO Method | Units             | Values |
|--|------------|-------------------|--------|
| Density  | 1183-1     | g/cm <sup>3</sup> | 0.900  |
| Flexural Modulus – 1% secant                   | 178        | MPa               | 900    |
| Tensile Strength at Yield                      | 527-1      | MPa               | 26     |
| Tensile Elongation at Yield                    | 527-1      | %                 | 6      |
| Rockwell Hardness (R Scale)                    | 2039-2     | -                 | 40     |
| Notched Izod Impact Strength at 23°C           | 180        | kJ/m <sup>2</sup> | 9.2    |
| Notched Izod Impact Strength at -20°C          | 180        | kJ/m <sup>2</sup> | 4.2    |
| Deflection Temperature under Load at 0.455 MPa | 75-1/75-2  | °C                | 92     |

a) Injection molded specimen according to ISO 294.

**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: 9010-79-1
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. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.

