

Polypropylene EP 448S

Sub-group

Heterophasic Copolymer

Description

EP 448S is a heterophasic copolymer of high fluidity and narrow molecular weight distribution. Combines excellent flow properties with outstanding mechanical properties, especially impact strength, comparison to homopolymer.

Applications

Injection Molding houseware and thin wall pieces.

Processing

Injection Molding

Control Property

	ASTM Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	D 1238	g/10 min	36

Typical Properties^a:

	ASTM Method	Units	Values
Density	D 792	g/cm ³	0.900
Flexural Modulus – 1% Secant	D 790	MPa	1200
Tensile Strength at Yield	D 638	MPa	29
Tensile Elongation at Yield	D 638	%	8
Rockwell Hardness (R Scale)	D 785	-	96
Notched Izod Impact Strength at 23°C	D 256	J/m	55
Notched Izod Impact Strength at -20°C	D 256	J/m	35
Deflection Temperature under Load at 0.455 MPa	D 648	°C	106

a) Injection molded specimens 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: 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.

