

## Polypropylene H 216

### Sub-group:

Homopolymer

### Description:

H 216 is a high melt flow rate homopolymer with narrow molecular weight distribution, designed for high toughness fibers process. H 216 exhibits excellent processability with good melt stability and toughness/impact balance.

### Applications:

Staple fibers and continuous filaments with high toughness and low denier; Fibers for reinforcement of asbestos-free concrete and roof tiles.

### Processing:

Fiber Extrusion

### Control Property:

	ISO Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	1133	g/10 min	18

### Typical Properties<sup>a</sup>:

	ISO Method	Units	Values
Density	1183-1	g/cm <sup>3</sup>	0.905
Flexural Modulus – 1% secant	178	MPa	1500
Tensile Strength at Yield	527-1	MPa	36
Tensile Elongation at Yield	527-1	%	9
Rockwell Hardness (R Scale)	2039-2	-	103
Notched Izod Impact Strength at 23°C	180	kJ/m <sup>2</sup>	1.9
Deflection Temperature under Load at 0.455 MPa	75-1/75-2	°C	103
Deflection Temperature under Load at 1.820 MPa	75-1/75-2	°C	59
Vicat Softening Temperature at 10 N	306	°C	151

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