



## Polypropylene: **TI4003F**

Sub-group  
Impact Copolymer

Description  
Extra high izod impact, very high flexural modulus, good low temperature drop impact

Applications  
Suggested uses include blow molding, extrusion, profiles, pipe

Control Properties	ASTM Method	Units	Values
Nominal Melt Flow (230°C/2.16kg)	D-1238	g/10 min	0.3

Typical Properties	ASTM Method	Units	Values
Tensile Strength at Yield (2 in/min, 50 mm/min)	D-638	psi(MPa)	4,200(29)
Elongation at Yield (2 in/min, 50 mm/min)	D-638	%	10.5
Flexural Modulus (0.05 in/min, 1.3 mm/min, 1% secant)	D-790A	psi(MPa)	210,000(1,448)
Notched Izod Impact Strength at 23°C	D-256A		No Break
Instrumented Impact Strength at -29°C	D-3763	ft-lbs(J)	36(49)
Rockwell Hardness	D-785	R	78

### Final Remarks

1. This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by the Food and Drug Administration. The additives present meet the applicable regulations.
2. This information 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 Technical Service.
5. The values in this report can be modified without prior communication from Braskem.
6. Braskem polyolefin products do not have additives with heavy metals or organotin-based materials.

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