



## Polypropylene: **D180M**

Sub-group  
Homopolymer

Description  
Low gas fade

### Applications

Suggested uses include BCF multi-filaments, high tenacity continuous filament yarn, fine denier staple fibers

Control Properties	ASTM Method	Units	Values
Nominal Melt Flow (230°C/2.16kg)	D-1238	g/10 min	18

Typical Properties	ASTM Method	Units	Values
Tensile Strength at Yield (2 in/min, 50 mm/min)	D-638	psi(MPa)	5,100(35)
Elongation at Yield (2 in/min, 50 mm/min)	D-638	%	9
Flexural Modulus (0.05 in/min, 1.3 mm/min, 1% secant)	D-790A	psi(MPa)	190,000(1,310)
Notched Izod Impact Strength at 23°C	D-256A	ft-lbs/in(J/m)	0.5(27)
Rockwell Hardness	D-785	R	104
Tenacity of Fibers (3.3 draw ratio, 1,250 m/min roll speed, 225Å°C spin temperature, D1000/68)	D-2256	g/denier	2.9
Elongation of Fibers (3.3 draw ratio, 1,250 m/min roll speed, 225Å°C spin temperature, D1000/68)	D-2256	%	93
Suggested Takeup Roll Speed	Braskem	ft/min(m/min)	6,561(2,000)

### 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.

### Revision

Date: 10/29/2018

[www.braskem.com](http://www.braskem.com)