

## TECHNICAL DATA SHEET

### REFINE® – PF3 434

*30% hemp fibres reinforced polypropylene compound for automotive parts*

Properties	Units	Values	Methods
<b>Physical properties</b>			
Melt flow rate (230°C / 2,16kg)	g/10 min	8	ISO 1133
Density	g/cm <sup>3</sup>	1.02	ISO 1183
<b>Mechanical properties</b>			
Tensile modulus	MPa	4000	ISO 527-2
Tensile strength at break	MPa	44	ISO 527-2
Elongation at break	%	3	ISO 527-2
Flexural Modulus	MPa	3700	ISO 178
Izod Impact notched @ 23°C	kJ/m <sup>2</sup>	5.6	ISO 180
Izod Impact unnotched @ -30°C	kJ/m <sup>2</sup>	14	ISO 180
<b>Thermal properties</b>			
HDT A	°C	52	ISO 75/A
HDT B	°C	100	ISO 75/B
Tensile modulus @ 100°C	MPa	1400	ISO527-2

**| Process:** injection

*Since it is a natural fibres compound based, this product must be processed according recommended injection conditions (e.g. low temperature typically <200 °C). For more details please contact your sale representative.*

**| Quality:** production certified ISO 9001

**| Typical properties:** not to be construed as specifications

**| Internet:** [www.apm-planet.com](http://www.apm-planet.com)

**| Email:** [contact@apm-planet.com](mailto:contact@apm-planet.com)