



Benvic IBE S.L.

# TECHNICAL DATA SHEET HFS003

## Physical properties

PROPERTIES	METHOD	UNIT	VALUE
Density	UNE EN ISO 1183	gr/cm <sup>3</sup>	<b>1,59</b>
Tensile Strength	UNE EN ISO 527	MPa	<b>&gt; 10</b>
Elongation at break	UNE EN ISO 527	%	<b>&gt; 150</b>
Mooney Viscosity ML (1+4 )/140 °C	ASTM D1646	MU	<b>40</b>
Water absorption, 10 days at 70 °C	CEI 20-34/1-3	mg/cm <sup>2</sup>	<b>&lt; 10</b>
Change in Tensile Strength after 240 hours at 100 °C	EN 60811	%	<b>&lt; 30</b>
Elongation at break after (240 hours-100° C)	EN 60811	%	<b>&gt; 125</b>
Change in Elongation at break after 240 hours at 100 °C	EN 60811	%	<b>&lt; 40</b>
Hot pressure test at 80 °C/k=0,6	EN 60811	%	<b>&lt; 50</b>
MFI (150° / 21,6 Kg)	ISO1133	g/10'	<b>5,4</b>
Heat Shock at 150 °C	EN 60811		<b>non break</b>
Bending test at -25 °C	EN 60811		<b>non break</b>
Cold impact at 150 °C	EN 60811		<b>non break</b>
Elongation at break (-25 °C)	EN 60811	%	<b>&gt; 20</b>

## Burning properties

LOI	UNE-EN ISO 4589	%	<b>41</b>
Halogenhidric Acid Emission	IEC 60754-1	%	<b>&lt; 0,1</b>
Corrosive gas in Smoke, pH	IEC 60754-2		<b>4,3</b>
Corrosive gas in Smoke. Conductivity	IEC 60754-2	µS/mm	<b>2,5</b>

## Recommended temperatures profile

Feeding	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Melt
130-150	130-150	140-160	140-160	150-170	150-170	160-170

## Additional information

### Packaging:

Storage: dry and cool place. The packaging should be kept closed to prevent moisture absorption. It may be necessary to dehumidify if the packaging is opened or if it has been stored for a long period of time

Masterbatch color: EVA or PE base

### Extrusion:

Standard extruders for thermoplastic materials. Low compression screw. L / D ratio: 24D-25D

Pre-drying: not necessary if storage recommendations are followed

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