



Benvic IBE S.L.

# TECHNICAL DATA SHEET

## HFI012

### Physical properties

| PROPERTIES   | METHOD          | UNIT               | VALUE            |
|--|-----------------|--------------------|------------------|
| Density  | UNE EN ISO 1183 | gr/cm <sup>3</sup> | <b>1,49</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>38</b>        |
| Change in Tensile Strenght after (168 hours at 80 °C)    | EN 60811        | %                  | <b>&lt; 20</b>   |
| Change in Elongation at break after (168 hours at 80 °C) | EN 60811        | %                  | <b>&lt; 20</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>7,0</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; 30</b>   |

### Burning properties

|                                      |                 |       |                 |
|--------------------------------------|-----------------|-------|-----------------|
| LOI                                  | UNE-EN ISO 4589 | %     | <b>36</b>       |
| Halogenhidric Acid Emision           | 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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