

**FÁBRICA / FACTORY**

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## TECHNICAL DATA SHEET

### NOVAPET SPRIT H11

**Medium molecular weight polyethylene terephthalate (PET) resin:**

- Intended for direct injection of clear parts.
- Transparent and glossy.
- Excellent mechanical properties.
- 100% recyclable.

**Typical applications for SPRIT H11 include:**

- Moulded containers for Food & Personal care.
- Food Packaging: comply with EU Regulations 1935/2004 & 10/2011 as well as with US FDA CFR 21 § 177.1630 (f).

<b><u>CHARACTERISATION</u></b>	<b>Test method</b>	<b>Unit</b>	<b>Typical Value</b>
<b>Pellet Shape / Size</b>	-	mm	Cylindrical (oval section) 2.8 x (2.8 x 2.0)
<b>Bulk Density (poured)</b>	B4 01 35	kg/m <sup>3</sup>	<b>890</b>
<b>Moisture content (KF titration)</b>	B4 01 15	%	<b>&lt; 0.4</b>
<b>Intrinsic Viscosity (capillary viscometry)</b>	ISO 1628	dl/g	<b>0.80</b>
<b>Specific Gravity (Mettler Toledo's density kit)</b>	B4 01 21	g/cm <sup>3</sup>	<b>1.39</b>
<b>Crystalline Peak Melting Point (DSC)</b>	B4 01 01	°C	<b>245</b>
<b>Melt Flow Index MFI (275°C – 2.16kg)</b>	ISO 1133	g/10min	<b>30</b>
<b>Mould Shrinkage</b>	-	%	<b>0.5</b>
<b><u>MECHANICAL PROPERTIES</u></b>			
<b>Flexural Modulus</b>	D 790 / ISO 178	MPa	<b>2505</b>
<b>Flexural Yield Strength</b>	D 790 / ISO 178	MPa	<b>86</b>
<b>Impact Charpy (notched), 23°C</b>	ISO 179/1eA	kJ/m <sup>2</sup>	<b>3.5</b>
<b>Impact Charpy (notched), -30°C</b>	ISO 179/1eA	kJ/m <sup>2</sup>	<b>2.9</b>
<b><u>THERMAL PROPERTIES</u></b>			
<b>Heat Deformation Temp. (HDT 1.8 MPa)</b>	ISO 75-1	°C	<b>69.2</b>

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