

**FÁBRICA / FACTORY**

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## TECHNICAL DATA SHEET

### NOVAPET SPRIT L21

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

- Outstanding melt flow performance.
- Suitable for thin-wall injected containers and parts.
- Transparency and gloss as PET.
- Excellent chemical resistance. Excellent mechanical properties.
- 100% recyclable in the post-consumer PET stream.

**Typical applications for SPRIT L21 include:**

- Injected thin-wall containers for Pharmacy, Food, Household, Personal care, Detergency, Chemicals.
- Industrial transparent and glossy components.
- 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>860</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>0.58</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>248</b>
<b>Melt Flow Index MFI (290°C – 5kg)</b>	ISO 1133	g/10min	<b>325</b>
<b>Mould Shrinkage</b>	-	%	<b>0.5</b>
<b><u>MECHANICAL PROPERTIES</u></b>			
<b>Tensile Modulus</b>	ISO 527-2	MPa	<b>2600</b>
<b>Tensile Yield Strength</b>	ISO 527-2	MPa	<b>60</b>
<b>Tensile Elongation at break</b>	ISO 527-2	%	<b>&gt; 50</b>
<b>Flexural Modulus</b>	D 790 / ISO 178	MPa	<b>2600</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>2.7</b>
<b>Impact Charpy (notched), -30°C</b>	ISO 179/1eA	KJ/m <sup>2</sup>	<b>2.0</b>

01 January 2016