



## Comparison Between ASPOM M20 N & IUPITAL F20 - O3

Property	ASPOM -M20N	Iupital F20-03
Density	1.4 g/cm <sup>3</sup>	1.41 g/cm <sup>3</sup>
Molding Shrinkage (parallel/normal or flow)	2.1%	2.0%
Water Absorption (24h or equilibrium)	0.55%	0.22%
Tensile/Yield Stress	65 MPa	64 MPa
Tensile/Yield Strain	9.4%	8.5%
Elongation at Break	29%	30%
Tensile Modulus	2700 MPa	2900 MPa
Flexural Modulus	2500 MPa	2600 MPa
Flexural Strength	87 MPa	90 MPa
Charpy Notched Impact (23°C)	6 kJ/m <sup>2</sup>	7 kJ/m <sup>2</sup>
Charpy Unnotched Impact (23°C)	245 kJ/m <sup>2</sup>	250 kJ/m <sup>2</sup>
HDT (1.8 MPa)	100 °C	100 °C
Melting Temperature (DSC)	167 °C	166 °C
MFR/MVR (190°C/2.16 kg)	9 g/10min / 7.5 cm <sup>3</sup> /10min	9 g/10min / 7.7 cm <sup>3</sup> /10min
Drying Temperature/Time	80 °C / 2-4 hrs	80 °C / 3-4 hrs
Melt Temperature (Injection)	190-230 °C	180-210 °C
Mold Temperature	60-120 °C	60-80 °C

### Summary -

These materials perform interchangeably for most applications, such as automotive components, with ASEP-M20N noting UV resistance.