

Envalior Durethan® CI 31 F 000000 Copolyamide PA6/6I

Categories: [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#); [Nylon 6 \(PA6\)](#)

Material Notes: Copolyamide PA6/6I, low melt point (188-191°C), low viscosity, no additives, very high transparency, in compliance with FDA as far as the PA-layer is separated from the food by a 50 µm PE film

Former Lanxess product line is now with Envalior.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	10 %	10 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	3.0 %	3.0 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Number	133 cm ³ /g	1.33 dl/g	ISO 307, 1157, 1628
Melt Flow	28 g/10 min @Load 5.00 kg, Temperature 260 °C	28 g/10 min @Load 11.0 lb, Temperature 500 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	250 %	250 %	ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-1/-2
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
Melting Point	188 °C	370 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	54.0 °C	129 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/-2

Descriptive Properties

Form	Pellets
ISO Short Name	ISO 1874: PA 6/ 6I,FNT,14-020
Processing	Film extrusion
Region	Asia Pacific Europe Near East/Africa North America South and Central America

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.