

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

Category : Polymer , Thermoplastic , Nylon , Nylon 6

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

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-CI-31-F-000000-Copolyamide-PA66I.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in³	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 Test	133 cm³/g	133 cm³/g	Viscosity number; 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	Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874: PA 6/ 6I,FNT,14-020	

Descriptive Properties	Value	Comments
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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