

LUCEL N109LD

Description

Middle viscosity grade, Injection molding, POM

Application

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ISO 1183	g/cm ³	1.41
Water absorption	23 °C, 50 %RH	ISO 62	%	0.2
Melt flow rate	190°C, 2.16kg	ISO 1133	g/10min	9
Mechanical				
Tensile Modulus		ISO 527	MPa	2,750
Tensile Strength		ISO 527	MPa	65
Tensile Elongation(@Yield)		ISO 527	%	10
Tensile Elongation(@Break)		ISO 527	%	35
Flexural Strength		ISO 178	MPa	87
Flexural Modulus		ISO 178	MPa	2,550
Charpy Impact Strength (Notched)	23°C -30°C	ISO179	kJ/m ² kJ/m ²	6.5 5.5
Thermal				
Heat Deflection Temperature	1.8 MPa	ISO 75	°C	100
Melting temperature	10 °C/min	ISO 11357	°C	165
Flammability		UL94	-	HB
Electrical				
Surface Resistivity		IEC 60093	Ω	1 x 10 ¹⁶
Volume Resistivity		IEC 60093	Ω·cm	1 x 10 ¹⁴
Dielectric Strength		IEC 60243-1	kV/mm	19

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