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LUCEL N109LD

Injection Molding, POM

Description

Chemical Resistance

Application

Copyer, Watch, Clock, VCR, Printer Parts, etc.

Rroperties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.41
Molding/Shripkage (Flow), 3.2mm		ASTM D955	%	1.8 ~ 2.1
Melt Flow Rate	190℃/2.16kg	ASTM D1238	g/10min	9
Mechanical				
Tensile Strength, 3.2 mm	Λ ·	ASTM D638		
@ Yield	/ 10mm/min		kg/cm ²	620
Tensile Elongation, 3.2mm		ASTM D638		
@ Break	10mg//m/n		%	65
Flexural Strength, 6.4mm	2.8/nm/mip	ASTM D790	kg/cm ²	910
Flexural Modulus, 6.4mm	2.8p/rh/rhin	ASTM D790	kg/cm ²	26,000
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 🕻 \ /) \	kg·cm/cm	7.0
Rockwell Hardness	R-Scale \	AST//1 D785	-	82
Thermal		70)6)	
Heat Deflection Temperature, 6.4mm		ASTM \$648	7/5	
(Unannealed)	18.6kg	\sim	//%	110
	4.6kg		S//c	160
Flammability		UL94		
0.71mm			c(as)s/ /	₩ HB
1.5mm			class	鵙
2.5mm			class	\Rightarrow /)\
3.0mm			class	<u> </u>
Electrical				
Dissipation Factor		ASTM D150		
	1MHz		<u>-</u>	3.8
Surface Resistivity		ASTM D257	Ohm	1*10 ¹⁶
Volume Resistivity	23 ℃	ASTM D257	Ohm⋅cm	1*10 ¹⁴
Dielectric Strength, 1mm	23 ℃	ASTM D149	kV/mm	24

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23°C, 50% relative humidty.

Updated: 9-Nov-09

Values given should not be interpreted as specification and not be used for part or tool design.





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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	$^{\circ}$	90 ~ 110
Drying Time	hrs	3 ~ 6
Minimuko-Moistur/e Content	%	0.1
Melt Temperature	$^{\circ}$	190 ~ 200
Rear	$^{\circ}$	160 ~ 180
Cylinder Temperature / / Middle	$^{\circ}$	180 ~ 200
Front	$^{\circ}$	190 ~ 200
Nozzle Temperature	$^{\circ}$	190 ~ 200
Mold Temperature	$^{\circ}$	60 ~ 80
Back Pressure	kg/cm ²	41 ~ 82
Screw Speed	rpm	50 ~ 100

Note) Back Pressure & Screw Speed are only mentioned as general guidelines

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

Updated: 9-Nov-09