# LUVOCOM® 1-8841

### Polyamide 66

Lehmann & Voss & Co.

#### Message:

LUVOCOM ® 1-8841 is a polyamide 66 (nylon 66) material, which contains glass fiber reinforcement and aramid fiber. This product is available in Europe. LUVOCOM ® The main features of 1-8841 are: anti-warping Good stiffness Wear-resistant Lubrication Typical application areas include: textile/fiber engineering/industrial accessories Automotive Industry business/office supplies

General Information				
Filler / Reinforcement	Glass fiber reinforced material			
	Aramid fiber			
Additive	PTFE lubricant	PTFE lubricant		
Features	Low friction coefficient			
	Low warpage			
	Rigid, good			
	Good strength			
	Good wear resistance			
	Lubrication			
Uses	Textile applications			
	Engineering accessories			
	Application in Automobile Field			
	Business equipment	Business equipment		
Appearance	Black			
Physical	Nominal Value	Unit	Test Method	
Density	1.44	g/cm³	ISO 1183	
Molding Shrinkage	0.30 - 0.70	%	DIN 16901	
Water Absorption (23°C, 24 hr)	< 1.0	%		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	8000	MPa	ISO 527-2	
Tensile Stress (Break)	120	MPa	ISO 527-2	
Tensile Strain (Yield)	2.8	2.8 % ISO 527-2		
Flexural Modulus	7000	MPa	ISO 178	

Hexural Stress175MPaISO 178Coefficient of Friction0.23Static0.17Flexural Strain at Flexural Strength3.4%ISO 178Maximum operating temperature-Short Term160°CISO 178Nusilation Resistance> 1.0E+12ohmsIEC 6016ThermalNominal ValueUnitTest MerContinuous Use Temperature250°CUL 7468Vicat Softening Temperature250°CISO 3066InjectionNominal ValueUnitISO 3066Nying Temperature250°CISO 3066Vicat Softening Temperature105°CISO 3066Nying Temperature105°CISO 3066Vacuum dryer, 80.016°CISO 3066Vacuum dryer, 80.016°CISO 3066Vacuum dryer, 80.010°CISO 3066Middle Temperature290 310°CISO 3066Nord Source90 310°CISO 3066Nord Source290 310°CISO 3066Middle Temperature290 310°CISO 3066Nord Source290 310°CISO 3066Nord Source90 310°CISO 3066Nord Source290 310°CISO 3066Nord Source90 310°CISO 3066Nord Source90 310°CISO 3066Nord Source90 310°CISO 3066Nord Source90 310°CISO 3066					
Dynamic     0.23       Static     0.17       Flexural Strain at Flexural Strength     3.4     %     ISO 178       Maximum operating temperature-Short     "c     Insulation Resistance     > 1.0E + 12     ohms     IEC 6016       Thermal     Nominal Value     Unit     Test Me       Continuous Use Temperature     120     °C     U.1746B       Vicat Softening Temperature     250     °C     ISO 3066       Injection     Nominal Value     Unit     State       Dyring Temperature     105     °C     State       Vacuum dryer, A     75.0     °C     State       Vacuum dryer, B     0.0 - 16     hr     State       Suggested Max Moisture     0.10     %     State       Suggested Max Moisture     290 - 310     °C     State       Midel Temperature     290 - 310     °C     State       Front Temperature     290 - 310     °C     State       Nozzle Temperature     280 - 300     °C     State	178	Pa ISO 178	М	175	Flexural Stress
Static     0.17       Flexural Strain at Flexural Strength     3.4     %     ISO 178       Maximum operating temperature-Short Term     160     °C     Insulation Resistance     > 1.0E + 12     ohms     IEC 6016       Thermal     Nominal Value     Unit     Test Me       Continuous Use Temperature     120     °C     U17468       Vicat Softening Temperature     250     °C     ISO 306/       Injection     Nominal Value     Unit     Test Me       Orying Temperature     250     °C     ISO 306/       Injection     Nominal Value     Unit     Test Me       Orying Temperature     150     °C     ISO 306/       Vacuum dryer, A     75.0     °C     ISO 400       Vacuum dryer, B     105     °C     ISO 400       Vacuum dryer, A     6.0 - 16     hr     ISO 400       Vacuum dryer, B     4.0 - 6.0     hr     ISO 400       Vacuum dryer, B     4.0 - 6.0     hr     ISO 400       Suggested Max Moisture     200 - 310     °C     ISO 400 <					Coefficient of Friction
Flexural Strain at Flexural Strength3.4%ISO 178Maximum operating temperature-Short Term160*CInsulation Resistance> 1.0E+12ohmsIEC 6016ThermalNominal ValueUnitTest MeContinuous Use Temperature120*CU.7468Vicat Softening Temperature250*CISO 306/InjectionNominal ValueUnitISO 306/Drying Temperature105*CISO 306/Vacuum dryer, B105*C*CMair dryer, A6.0 - 16hr*CVacuum dryer, B6.0 - 16hr*CSuggested Max Moisture0.10%*CRear Temperature290 - 310*C*CMiddle Temperature290 - 310*C*CNozzel Temperature				0.23	Dynamic
Maximum operating temperature-Short     160     °C       Insulation Resistance     > 1.0E+12     ohms     IEC 6016       Thermal     Nominal Value     Unit     Test Me       Continuous Use Temperature     120     °C     UL 746B       Vicat Softening Temperature     250     °C     ISO 306/       Injection     Nominal Value     Unit     Test Me       Orying Temperature     250     °C     ISO 306/       Injection     Nominal Value     Unit     Test Me       Orying Temperature     105     °C     ISO 306/       Vacuum dryer, B     105     °C     ISO 306/       Vacuum dryer, B     6.0 - 16     hr     ISO 306/       Vacuum dryer, B     4.0 - 6.0     hr     ISO 300/     ISO 300/       Suggested Max Moisture     0.10     %     ISO 300/     °C       Middle Temperature     290 - 310     °C     ISO 300/     °C       Nozzle Temperature     280 - 300     °C     ISO 300/     °C				0.17	Static
Term     160     °C       Insulation Resistance     > 1.0E+12     ohms     IEC 6016       Thermal     Nominal Value     Unit     Test Me       Continuous Use Temperature     120     °C     UL 746B       Vicat Softening Temperature     250     °C     ISO 306/       Injection     Nominal Value     Unit     ISO 306/       Injector     Nominal Value     Unit     ISO 306/       Injector     Nominal Value     Unit     ISO 306/       Injector     Nominal Value     Unit     ISO 306/       Prying Temperature     ISO 300     °C     ISO 306/       Vacuum dryer, A     75.0     °C     ISO 300/       Vacuum dryer, B     105     °C     ISO 300       Vacuum dryer, A     6.0 - 16     hr     ISO 300     ISO 300       Suggested Max Moisture     0.10     %     ISO 300     °C     ISO 300       Middle Temperature     290 - 310     °C     ISO 300     °C     ISO 300     'C       Nozzle Temperature     280 - 300	178	ISO 178	%	3.4	Flexural Strain at Flexural Strength
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Drying Temperature     Hot air dryer, A   75.0   °C     Vacuum dryer, B   105   °C     Drying Time   6.0 - 16   hr     Vacuum dryer, A   6.0 - 16   hr     Vacuum dryer, B   4.0 - 6.0   hr     Suggested Max Moisture   0.10   %     Rear Temperature   290 - 310   °C     Middle Temperature   290 - 310   °C     Nozzle Temperature   280 - 300   °C     Nozzle Temperature   280 - 300   °C	306/A	ISO 300	°C	250	Vicat Softening Temperature
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Middle Temperature290 - 310°CFront Temperature290 - 310°CNozzle Temperature280 - 300°CProcessing (Melt) Temp290°C			%	0.10	Suggested Max Moisture
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Nozzle Temperature280 - 300°CProcessing (Melt) Temp290°C			°C	290 - 310	Middle Temperature
Processing (Melt) Temp 290 °C			°C	290 - 310	Front Temperature
- · · ·			°C	280 - 300	Nozzle Temperature
Mold Temperature 90.0 - 120 °C			°C	290	Processing (Melt) Temp
			°C	90.0 - 120	Mold Temperature
Injection instructions					Injection instructions

#### General

In general LUVOCOM® can be processed on conventional injection moulding machines while observing the usual technical guidelines.

Any added fibrous materials or fillers may have an abrasive effect. In this case the cylinder and screw should be protected against wear as is usual in the processing of reinforced thermoplastic materials.

Lengthy dwell times for the melts in the cylinder should be avoided.

Lower the temperatures during interruptions!

Predrying (optional)

It is advisable to predry the granulate with a suitable dryer immediately before processing.

The granulate may absorb moisture from the air.

Delivery Form & Storage

Unless indicated otherwise, the material is delivered as 3mm-long pellets in sealed bags on pallets.

Preferably storage should be effected in dry and normally temperatured rooms

Additional Information

During processing the moisture level should not exceed 0.1%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. Due to rapid absorption of water, originally sealed containers should only be opened immediately prior to processing. Excessively high predrying temperatures may cause discoloration.

The processing notes provided merely represent a recommendation for general use. Due to the large variety of machines, geometries and volumes of parts, etc., it may be necessary to employ different settings according to the specific application. Please contact us for further information.

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