

LUVOCOM® 55-8647

Polycarbonate + ABS

LEHVOSS Group

Message:

LUVOCOM® 55-8647 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 55-8647 are:

Conductivity

Good stiffness

Impact resistance

Typical application areas include:

engineering/industrial accessories

Electrical/electronic applications

Reflector

business/office supplies

Sporting goods

General Information			
Features	Heat conduction		
	Rigid, good		
	Impact resistance, good		
	Good strength		
Uses	Plug		
	Reflector		
	Engineering accessories		
	Switch		
	Business equipment		
	Sporting goods		
Appearance	Medical/nursing supplies		
	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	< 10.0	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2
Tensile Stress (Break)	65.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.5	%	ISO 527-2
Flexural Modulus	4500	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178

Flexural Strain at Flexural Strength	5.0	%	ISO 178
Maximum operating temperature-Short Term	140	°C	
Insulation Resistance	> 1.0E+14	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			
-30°C	55	kJ/m ²	ISO 179/1fU
23°C	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	105	°C	ISO 75-2/A
Continuous Use Temperature	90.0	°C	UL 746B
Vicat Softening Temperature	115	°C	ISO 306/A
CLTE - Flow	6.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity ¹	1.3	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	70 - 100	°C	
Drying Time - Desiccant Dryer	3.0 - 5.0	hr	
Rear Temperature	210 - 250	°C	
Middle Temperature	220 - 260	°C	
Front Temperature	230 - 270	°C	
Nozzle Temperature	240 - 280	°C	
Processing (Melt) Temp	270	°C	
Mold Temperature	50 - 100	°C	
Injection instructions			
<p>General</p> <p>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.</p> <p>Lengthy dwell times for the melts in the cylinder should be avoided.</p> <p>Lower the temperatures during interruptions!</p> <p>Predrying (optional)</p> <p>It is advisable to predry the granulate with a suitable dryer immediately before processing.</p> <p>The granulate may absorb moisture from the air.</p> <p>Delivery Form & Storage</p> <p>Unless indicated otherwise, the material is delivered as 3mm-long pellets in sealed bags on pallets.</p> <p>Preferably storage should be effected in dry and normally temperatured rooms</p> <p>Additional Information</p> <p>During processing, the moisture level should not exceed 0.02%, otherwise molecular degradation may occur.</p> <p>Suitable heat treatment may increase resistance to the formation of stress cracks.</p> <p>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.</p> <p>Please contact us for further information.</p>			
NOTE			

1. Hot-Disk, 60x60x3 mm

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