LUVOCOM® 80-8222

Acetal (POM) Copolymer

Lehmann & Voss & Co.

Message:

LUVOCOM® 80-8222 is a polyoxymethylene (POM) copolymer material, which contains a mineral filler. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM®The main features of 80-8222 are:

flame retardant/rated flame

anti-warping

Good dimensional stability

Wear-resistant

Lubrication

Typical application areas include:

engineering/industrial accessories

textile/fiber

Automotive Industry

business/office supplies

Additive Lubricant Features Good dimensional stability Low friction coefficient Low warpage Good wear resistance Lubrication Uses Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Nominal Value Unit Test Method Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) Molding Shrinkage 0.90 - 1.4 Melet Absorption (23°C, 24 hr) Melet Absorption (23°C, 24 hr) Melet Absorption (23°C, 24 hr) Melet Volume Vol	General Information			
Features Good dimensional stability Low friction coefficient Low warpage Good wear resistance Lubrication Uses Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Natural color Physical Nominal Value Unit Test Method Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) Molding Shrinkage 0.90 - 1.4 Melt Absorption (23°C, 24 hr) Nominal Value Unit Test Method Density Melchanical Nominal Value Unit Test Method	Filler / Reinforcement	Mineral filler		
Low friction coefficient Low warpage Good wear resistance Lubrication Uses Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Natural color Physical Nominal Value Unit Test Method Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 12.0	Additive	Lubricant		
Low warpage Good wear resistance Lubrication Uses Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Natural color Physical Nominal Value Unit Test Method Density 1.64 0.90 - 1.4 0.90 -	Features	Good dimensional stability		
Good wear resistance Lubrication Uses Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Nominal Value Unit Test Method Density 1.64 9/cm³ 1SO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 0.90 - 1.4		Low friction coefficient		
Lubrication Uses Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Nominal Value Unit Test Method Density 1.64 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) Molding Shrinkage 0.90 - 1.4 Molding Shrinkage Nominal Value Unit Test Method ISO 1133 Molding Shrinkage 0.90 - 1.4 Molding Shrinkage Nominal Value Unit Test Method DiN 16901 Molding Shrinkage Nominal Value Unit Test Method		Low warpage		
Uses Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Natural color Physical Nominal Value Unit Test Method Density 1.64 g/cm³ 150 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min 150 1133 Molding Shrinkage 0.90 - 1.4 Water Absorption (23°C, 24 hr) Vominal Value Unit Test Method DIN 16901 Holding Shrinkage Unit Test Method DIN 16901 Test Method		Good wear resistance		
Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Nominal Value Unit Test Method Density 1.64 12.0 Cm³/10min 1SO 1133 Molding Shrinkage 0.90 - 1.4 Water Absorption (23°C, 24 hr) Vominal Value Unit Test Method		Lubrication		
Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Nominal Value Unit Test Method Density 1.64 12.0 Cm³/10min 1SO 1133 Molding Shrinkage 0.90 - 1.4 Water Absorption (23°C, 24 hr) Vominal Value Unit Test Method				
Engineering accessories Application in Automobile Field Business equipment Cam Bearing Appearance Natural color Physical Nominal Value Unit Test Method Density 1.64 0.90 - 1.4 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 Cm³/10min 1SO 1133 Molding Shrinkage 0.90 - 1.4 Water Absorption (23°C, 24 hr) Nominal Value Unit Test Method Unit Test Method	Uses	Gear		
Application in Automobile Field Business equipment Cam Bearing Appearance Natural color Physical Nominal Value Unit Test Method Density 1.64 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % Din 16901 Water Absorption (23°C, 24 hr) Mechanical Nominal Value Unit Test Method		Textile applications		
Business equipment Cam Bearing Appearance Natural color Physical Nominal Value Unit Test Method Density 1.64 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % Density Mechanical Nominal Value Unit Test Method Iso 1133 DIN 16901		Engineering accessories		
Appearance Natural color Physical Nominal Value Unit Test Method Density 1.64 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method		Application in Automobile Field		
Appearance Natural color Physical Nominal Value Unit Test Method Density 1.64 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method		Business equipment		
Appearance Natural color Physical Nominal Value Unit Test Method Density 1.64 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method		Cam		
Physical Nominal Value Unit Test Method Density 1.64 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method		Bearing		
Physical Nominal Value Unit Test Method Density 1.64 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method				
Density 1.64 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method	Appearance	Natural color		
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method	Physical	Nominal Value	Unit	Test Method
kg) 12.0 cm³/10min ISO 1133 Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10	Density	1.64	g/cm³	ISO 1183
Molding Shrinkage 0.90 - 1.4 % DIN 16901 Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method	Melt Volume-Flow Rate (MVR) (190°C/2.16	100	2.40	100 1100
Water Absorption (23°C, 24 hr) < 0.10 % Mechanical Nominal Value Unit Test Method				
Mechanical Nominal Value Unit Test Method		0.90 - 1.4		DIN 16901
	Water Absorption (23°C, 24 hr)	< 0.10	%	
Tensile Modulus 6000 MPa ISO 527-2	Mechanical	Nominal Value	Unit	Test Method
	Tensile Modulus	6000	MPa	ISO 527-2

Tensile Stress (Break)	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.5	%	ISO 527-2
Flexural Modulus	5000	MPa	ISO 178
Flexural Stress	82.0	MPa	ISO 178
Flexural Strain at Flexural Strength	5.0	%	ISO 178
Maximum operating temperature-Short Term	120	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	20	kJ/m²	ISO 179/1fU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	110	°C	ISO 75-2/A
Continuous Use Temperature	100	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹	НВ		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
A	75.0	°C	
Dehumidification desiccant, B	120	°C	
Drying Time			
A	2.0 - 8.0	hr	
Dehumidification desiccant, B	2.0 - 4.0	hr	
Rear Temperature	175 - 190	°C	
Middle Temperature	185 - 205	°C	
Front Temperature	180 - 200	°C	
Nozzle Temperature	175 - 200	°C	
Processing (Melt) Temp	200	°C	
Trocessing (Well) Temp	200	C	
Mold Temperature	80.0 - 120	°C	

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

If originally sealed containers are used, it is normally possible to omit the predrying stage. If PTFE materials are not predried, an increase in deposits inside the mould may occur. When changing from higher melting-point polymers such as polyamides to this product, extremely thorough intermediate cleaning should be carried out. Processing temperatures above 215°C may very rapidly cause thermal damage and should therefore be avoided, particularly as formaldehyde may be eliminated here.

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.

NOTE

1.

Not recognized by UL.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT