

Lehmann & Voss LUVOCOM[®] 94-8485 LD-PE, unreinforced

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering.Reduced moment of inertia compared with metal parts.Dynamic stressed parts.Especially suitable for thin wall complex parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-94-8485-LD-PE-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.015 - 0.030 cm/cm	0.015 - 0.030 in/in	
Melt Flow	>= 50 g/10 min @Load 2.16 kg, Temperature 190 Â°C	>= 50 g/10 min @Load 4.76 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	9.00 MPa	1310 psi	
Elongation at Yield	20 %	20 %	
Modulus of Elasticity	0.300 GPa	43.5 ksi	
Charpy Impact Unnotched	NB	NB	flatwise; ISO 179 1fU
	NB @Temperature -30.0 Â°C	NB @Temperature -22.0 Â°F	ISO 179

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	70.0 Â°C	158 Â°F	
	100 Â°C	212 Â°F	short term
Vicat Softening Point	80.0 Â°C	176 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+9 ohm	>= 1.00e+9 ohm	
Insulation Resistance	>= 1.00e+9 ohm	>= 1.00e+9 ohm	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	230 Â°C	446 Â°F	mass temp
Nozzle Temperature	190 - 250 Â°C	374 - 482 Â°F	
Zone 1	160 - 200 Â°C	320 - 392 Â°F	
Zone 2	170 - 220 Â°C	338 - 428 Â°F	
Zone 3	180 - 240 Â°C	356 - 464 Â°F	
Mold Temperature	30.0 - 80.0 Â°C	86.0 - 176 Â°F	
Drying Temperature	85.0 Â°C @Time 7200 - 10800 sec	185 Â°F @Time 2.00 - 3.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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