

PREPERM® L1000HF

Polyphenylene Ether

Premix Oy

Message:

PREPERM® L1000HF is a special compound with elevated dielectric constants of 10.

PREPERM® L1000HF is a special compound based on Premix proprietary PPE technology. Extremely low dissipation factor (< 0.001) makes PREPERM® L1000HF an excellent material for high frequency applications. PREPERM® L1000HF offers stable dielectric constant over wide frequency and wide temperature range. PREPERM® L1000HF is modified for injection moulding.

Applications include structural parts for antennas in base stations, point to point, wlan, mobile phones etc. Devices made out of PREPERM® can operate at very high frequencies as PREPERM® offers stable performance even at 120 GHz.

General Information			
Features	Good electrical performance		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Components		
RoHS Compliance	RoHS compliance		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	2.32	g/cm ³	
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage	0.40	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (4.00 mm)	45.0	MPa	ISO 527-2
Tensile Strain (Break, 4.00 mm, Injection Molded)	3.0	%	ISO 527-2
Flexural Modulus (4.00 mm)	6200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	3.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	15	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	126	°C	ISO 75-2/Bf
1.8 MPa, not annealed	122	°C	ISO 75-2/Af
Electrical	Nominal Value		Test Method
Dielectric Constant (1.00 GHz)	10.0		Internal method
Dissipation Factor (1.00 GHz)	8.0E-4		Internal method
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 100	°C	
Drying Time	2.0 - 4.0	hr	

Processing (Melt) Temp	280 - 310	°C
Mold Temperature	80.0 - 110	°C
Injection Rate	Moderate-Fast	

Injection instructions

Injection Pressure: High

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Recommended distributors for this material

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