

Witcom PP 5LG-EC

Polypropylene

Witcom Engineering Plastics B.V.

Message:

Witcom PP 5LG-EC is a polypropylene product that contains 25% long glass fiber as filler. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Conductivity

General Information			
Filler / Reinforcement	Long glass fiber, 25% filler by weight		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.30 - 0.50	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.030	%	ISO 62
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 85.0	MPa	ISO 527-2
Tensile Strain (Break)	1.0 - 3.0	%	ISO 527-2
Flexural Modulus	7700	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	°C	ISO 75-2/A
CLTE - Flow	4.5E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	75.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 - 1.0E+8	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (3.00 mm)	HB		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.050	%	
Processing (Melt) Temp	200 - 260	°C	

Mold Temperature	40.0 - 80.0	°C
Injection Rate	Fast	
Back Pressure	0.00 - 0.500	MPa

Injection instructions

Screw speed: 0.1 - 0.15 m/s Injection pressure: Keep to a minimum Hold pressure: Keep to a minimum

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