

Witcom PP 2S

Polypropylene

Witcom Engineering Plastics B.V.

Message:

Witcom PP 2S is a polypropylene product that contains stainless steel fibers. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Conductivity

Electromagnetic shielding (EMI)

General Information			
Filler / Reinforcement	Stainless steel fiber		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	1.5 - 2.0	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.020	%	ISO 62
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	20.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	1100	MPa	ISO 178
Flexural Stress	25.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	24	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	> 100	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	°C	ISO 75-2/A
CLTE - Flow	1.5E-4	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+2 - 1.0E+5	ohms	ASTM D257
EMI Shielding Effectiveness (3.00 mm)	40.0 - 55.0	dB	ASTM D4935
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		ISO 1210
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 - 245	°C
Mold Temperature	40.0 - 70.0	°C
Injection Rate	Moderate	
Back Pressure	0.00 - 0.500	MPa

Injection instructions

Screw speed: 0.1 - 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

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