

# Witcom PE 2009/271

Polyethylene

Witcom Engineering Plastics B.V.

## Message:

Witcom PE 2009/271 is a polyethylene product. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Conductivity

General Information			
Features	Conductivity Heat conduction		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.60 - 1.0	%	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 (Yield)	< 45.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0 - 4.0	%	ISO 527-2
Flexural Modulus	5500	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.8	kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength	8.0	kJ/m <sup>2</sup>	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity <sup>1</sup>	2.3	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+4	ohms	ASTM D257
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	4.0	hr	
Suggested Max Moisture	0.050	%	
Processing (Melt) Temp	180 - 240	°C	
Mold Temperature	20.0 - 60.0	°C	
Injection Rate	Fast		

Back Pressure	0.00 - 1.00	MPa
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#### Injection instructions

Screw speed: 0.1 - 0.25 m/s Injection pressure: Keep to a minimum Hold pressure: Keep to a minimum

#### NOTE

1. through plane

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#### Recommended distributors for this material

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