

Witcom PS EC-HI

High Impact Polystyrene

Witcom Engineering Plastics B.V.

Message:

Witcom PS EC-HI is a high impact polystyrene product. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Conductivity

Impact resistance

General Information			
Features	Conductivity		
	Impact resistance, high		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.40 - 0.60	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.10	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	30.0	MPa	ISO 527-2/50
Tensile Strain (Break)	8.0 - 12	%	ISO 527-2/50
Flexural Modulus	1900	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	18	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength	45	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	60.0	°C	UL 746
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	200 - 250	°C
Mold Temperature	30.0 - 80.0	°C
Injection Rate	Fast	
Back Pressure	0.00 - 1.00	MPa

Injection instructions

Screw speed: 0.1 - 0.25 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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