

# Electroblend® HIPS-1800

High Impact Polystyrene

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

## Message:

Electroblend® HIPS-1800 is a conductive high impact polystyrene compound.

General Information			
Features	Electrically Conductive		
	High Impact Resistance		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Industrial Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	25.0	MPa	ASTM D638
Tensile Elongation (Break)	1.4	%	ASTM D638
Flexural Modulus	2320	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	77.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	200 to 210	°C	
Middle Temperature	210 to 220	°C	
Front Temperature	220 to 230	°C	

Nozzle Temperature	230 to 240	°C
Processing (Melt) Temp	200 to 250	°C
Mold Temperature	60.0	°C

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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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