G-Blend 85 HI PC/ABS

Polycarbonate + ABS

Gardiner Compounds Ltd.

Message:

G-Blend 65/85/85HI is a non-reinforced, amorphous thermoplastic polymer blend based on polycarbonate and acrylonitrile butadiene styrene. It is noted for its toughness, rigidity and ability to flow and mould easily.
This blend contains a proportion of recycled and prime material to produce a polymer that offers outstanding properties, giving users the benefit of considerable cost down over equivalent prime grades.
G-Blend 65/85/85HI complies with all the recycling directives and can be recycled in the normal way.
Typical applications include interior automotive trim, mobile phone housings, electrical and electronic enclosures and some household goods.
This material is available in a black and natural and a whole range of colours.

General Information	
Recycled Content	Yes
Features	Rigidity, high Good formability Good liquidity Good toughness amorphous
Uses	Electrical/Electronic Applications Electrical housing Household goods Car interior equipment Car exterior decoration Mobile phone
Appearance	Black Natural color
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	15	g/10 min	ISO 1133
Molding Shrinkage [1]	0.50 - 0.70	%	ISO 2577
Water Absorption (equilibrium, 23°C, 85% RH)	0.18	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/1
Tensile Stress (Break)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50

Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	65	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	121	°C	ISO 75-2/A
Vicat Softening Temperature	134	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 110	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	240 - 260	°C	
Middle Temperature	245 - 265	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	240 - 260	°C	
Processing (Melt) Temp	280	°C	
Mold Temperature	70.0 - 100	°C	
Injection instructions			
Max Dwell Time: 8 mins			
NOTE			
1.	500 bar		

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Recommended distributors for this material

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