

# Adell PS IF-110

High Impact Polystyrene

Adell Plastics, Inc.

## Message:

Adell PS IF-110 is a flame retardant impact polystyrene concentrate. IF-110 is a cost effective material to be used in high impact polystyrene applications where UL rating of V-0 is critical.

The concentrate is typically mixed with HIPS at a ratio of two parts of base resin with one part of IF-110 to obtain a V-0 rating at 1/16" for the molded product.

The physical properties of the concentrate have been engineered to produce molded parts from HIPS and the concentrate blend that have properties similar to those molded of HIPS.

The property data of test bars produced from two parts HIPS and one part IF-110 is shown on this datasheet.

General Information			
Features	Flame Retardant		
	High Impact Resistance		
Uses	Electrical Housing		
	Housings		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/1.2 kg)	5.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	10	kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	100	kJ/m <sup>2</sup>	ISO 180/1U
Gardner Impact	8.00	J	ASTM D3029

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