

API II 550-HF

High Impact Polystyrene

API II, Inc.

Message:

Product Description:

API II 550-HF is a high impact grade of polystyrene. It is characterized by good impact and processability. It offers good retention of mechanical properties in applications with long flow length requirements. Complies with FDA regulation 21 CFR 177.1640.

Application:

Large grills, panels, frames or displays where optimum gloss and esthetic appeal is required.

General Information			
Features	Impact resistance, high		
	Workability, good		
Uses	Displays		
	Wallboard		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D892
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	14	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	47		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2140	MPa	ASTM D638
Tensile Strength (Break)	20.7	MPa	ASTM D638
Tensile Elongation (Break)	58	%	ASTM D638
Flexural Modulus	2030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	81.1	°C	ASTM D648
Vicat Softening Temperature	90.6	°C	ASTM D1525

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