

API II 550

High Impact Polystyrene

API II, Inc.

Message:

Product Description:

API II 550 is a high impact grade of polystyrene. It is characterized by good impact, gloss and processability. Complies with FDA regulation 21 CFR 177.1640.

Application:

API II 550 is used in housewares, toys, containers, appliance parts, speaker housings, medical devices and various types of extrusions.

General Information			
Features	Good Gloss		
	Impact resistance, high		
	Workability, good		
Uses	Electrical housing		
	Home appliance components		
	Household goods		
	Container		
	Toys		
	Medical devices		
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)	8.0	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	2070	MPa	ASTM D638
Tensile Strength (Break)	21.4	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	120	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	93.3	°C	ASTM D1525

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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

