

API II 650

High Impact Polystyrene

API II, Inc.

Message:

Product Description:

API II 650 has been developed for injection molding applications that need a higher degree of toughness and gloss than conventional polystyrene. This polymer approaches ABS type properties. Complies with FDA regulation 21 CFR 177.1640.

Application:

Widely used in appliance housings, toys, bathroom accessories and displays.

General Information			
Features	High Toughness		
	Highlight		
	Impact resistance, high		
Uses	Displays		
	Home appliance components		
	Shell		
	Toys		
	Bathroom accessories		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
Processing Method	Injection molding		
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 (M-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2050	MPa	ASTM D638
Tensile Strength (Break)	21.4	MPa	ASTM D638
Tensile Elongation (Break)	48	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	140	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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