

# API II 390

## General Purpose Polystyrene

API II, Inc.

### Message:

Product Description:

API II 390 is a general purpose polystyrene produced in pellet form for injection molding and extrusion. API 390 has excellent clarity and easy flow.

Application:

Used in the manufacture of cosmetic containers, housewares, toys and medical applications. Complies with FDA regulation 21 CFR 77.1640.

General Information	
Features	Good liquidity Definition, high
Uses	Household goods Container Toys Medical/nursing supplies
Agency Ratings	FDA 21 CFR 177.1640
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	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)	74		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3010	MPa	ASTM D638
Tensile Strength (Break)	36.5	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	98.3	°C	ASTM D1525

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