

API PS 390

General Purpose Polystyrene
American Polymers, Inc.

Message:

API 390 is a general purpose polystyrene produced in pellet form for injection molding. API 390 has excellent clarity and easy flow.
Application: Used in the manufacture of toys, containers, housewares, cosmetic containers, and medical applications.

General Information			
Features	General Purpose		
	Good Flow		
	High Clarity		
Uses	Containers		
	Cosmetic Packaging		
	Household Goods		
	Medical/Healthcare Applications		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
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)	74		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2880	MPa	ASTM D638
Tensile Strength (Break)	43.4	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	87.8	°C	ASTM D648
Vicat Softening Temperature	98.3	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	2.0	hr	
Suggested Max Regrind	30	%	
Rear Temperature	177 to 232	°C	

Front Temperature	191 to 274	°C
Mold Temperature	-6.67 to 71.1	°C
Injection Pressure	34.5 to 276	MPa
Back Pressure	0.0689 to 3.45	MPa

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