

# API PS 375

General Purpose Polystyrene  
American Polymers, Inc.

Message:

API PS 375 is a General Purpose Polystyrene material. It is available in North America for injection molding.  
Important attributes of API PS 375 are:  
Clarity  
High Strength  
Typical applications include:  
Consumer Goods  
Containers  
Household Applications  
Medical/Healthcare

General Information			
Features	General Purpose		
	High Clarity		
	High Strength		
Uses	Containers		
	Household Goods		
	Medical/Healthcare Applications		
	Toys		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	76		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2850	MPa	ASTM D638
Tensile Strength (Break)	44.5	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	90.6	°C	
1.8 MPa, Annealed	90.6	°C	
Vicat Softening Temperature	102	°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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#### Recommended distributors for this material

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