

API PS 370

General Purpose Polystyrene

American Polymers, Inc.

Message:

API 370 is a high heat polystyrene produced in pellet form. It has excellent strength and clarity as well as fast set-up properties.
Application: Used in the manufacture of toys, containers, housewares, and medical applications. Processing methods include blow molding, extrusion and injection molding.

General Information	
Features	High Clarity
	High Heat Resistance
	High Strength
Uses	Containers
	Household Goods
	Medical/Healthcare Applications
	Toys
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	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)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2590	MPa	ASTM D638
Tensile Strength (Break)	50.7	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	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)	93.9	°C	ASTM D648
Vicat Softening Temperature	104	°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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