

API PS 425

Medium Impact Polystyrene

American Polymers, Inc.

Message:

API 425 is a medium impact grade of polystyrene for injection molding. API 425 has good gloss, easy flow, and fast cycling properties, Application: API 425 is widely used in cosmetic packaging, food packaging, cassettes, caps, and closures.

General Information			
Features	Fast Molding Cycle		
	Good Flow		
	Medium Gloss		
	Medium Impact Resistance		
Uses	Audio Tapes		
	Caps		
	Closures		
	Cosmetic Packaging		
	Food Packaging		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	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)	48		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1930	MPa	ASTM D638
Tensile Strength (Break)	33.1	MPa	ASTM D638
Tensile Elongation (Break)	24	%	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	87.2	°C	ASTM D648
Vicat Softening Temperature	94.4	°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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