

API PS 505-21

General Purpose Polystyrene

American Polymers, Inc.

Message:

API PS 505-21 is a General Purpose Polystyrene material. It is available in North America for injection molding.

Important attributes of API PS 505-21 are:

Fast Molding Cycle

Impact Modified

Typical applications include:

Caps/Lids/Closures

Consumer Goods

Electrical/Electronic Applications

Packaging

General Information			
Additive	Impact Modifier		
Features	Fast Molding Cycle		
	Good Flow		
	Impact Modified		
	Medium Gloss		
Uses	Audio Tapes		
	Caps		
	Cosmetics		
	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)	13	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	35		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2140	MPa	ASTM D638
Tensile Strength (Break)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	42	%	ASTM D638
Flexural Modulus	2690	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.2	°C	ASTM D648


Vicat Softening Temperature	88.9	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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