

STYRON™ 498

High Impact Polystyrene

Americas Styrenics LLC

Message:

STYRON™498 is a high impact polystyrene material. This product is available in North America or Latin America and is processed by extrusion or injection molding.

STYRON™The main features of the 498 are:

- flame retardant/rated flame
- high gloss
- accessible food
- Impact resistance

Typical application areas include:

- Electrical/electronic applications
- electrical appliances
- home apps
- food contact applications
- medical/health care

General Information			
UL YellowCard	E326906-100171513		
Features	Highlight		
	Impact resistance, high		
	Compliance of Food Exposure		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Household goods		
	Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.1640		
UL File Number	E326906		
Forms	Particle		
Processing Method	Extrusion		
	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)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2200	MPa	ASTM D638
Tensile Strength			ASTM D638

Fracture, injection molding	30.0	MPa	ASTM D638
Injection Molding	36.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	45	%	ASTM D638
Flexural Modulus (Injection Molded)	2300	MPa	ASTM D790
Flexural Strength (Injection Molded)	61.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, molded	85	J/m	ASTM D256
23°C, injection molding	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	93.0	°C	ASTM D648
1.8 MPa, not annealed	83.0	°C	ASTM D648
Vicat Softening Temperature	105	°C	ASTM D1525
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	218 - 249	°C	
Middle Temperature	218 - 249	°C	
Front Temperature	199 - 213	°C	
Nozzle Temperature	213 - 243	°C	
Mold Temperature	15.6 - 65.6	°C	
Injection Rate	Fast		
Back Pressure	0.200 - 1.20	MPa	
Cushion	6.35	mm	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	177 - 193	°C	
Cylinder Zone 2 Temp.	182 - 204	°C	
Cylinder Zone 3 Temp.	188 - 210	°C	
Cylinder Zone 4 Temp.	199 - 216	°C	
Cylinder Zone 5 Temp.	204 - 221	°C	
Adapter Temperature	193 - 232	°C	
Melt Temperature	193 - 232	°C	
Die Temperature	199 - 232	°C	
Extrusion instructions			

Zone 6 Temperature: 204 to 221°C Melt Pump, Pipes, Screen Changer Temperature: 193 to 232°C Polish Rolls Temperature: 66 to 104°C Head Pressure: 10 to 21 MPa

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

