

STYRON™ 404

General Purpose Polystyrene

Americas Styrenics LLC

Message:

STYRON™404 is a general-purpose polystyrene material. This product is available in North America or Latin America and is processed by extrusion or injection molding.

Typical application areas include:

additive/masterbatch

food contact applications

General Information	
Uses	Composite Masterbatch
Agency Ratings	FDA 21 CFR 177.1640
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)	2.3	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ASTM D638
Tensile Strength (Break)	33.0	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	43.0	MPa	ASTM D790
Tensile Rupture	33.0	MPa	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C	85	J/m	ASTM D256
23°C, molded	75	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	106	°C	ASTM D1525
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	

Rear Temperature	199 - 213	°C
Middle Temperature	248 - 249	°C
Front Temperature	218 - 249	°C
Nozzle Temperature	213 - 243	°C
Back Pressure	0.200 - 1.20	MPa
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		

Polish Rolls: 66 - 104 °C Head Pressure: 10 - 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.

Recommended distributors for this material

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

