

STYRON A-TECH™ 1290

General Purpose Polystyrene

Americas Styrenics LLC

Message:

STYRON A- TECH™1290 is a general-purpose polystyrene material. This product is available in Latin America and is processed by extrusion, thermoforming or injection molding.

STYRON A- TECH™The main features of the 1290 are:

flame retardant/rated flame

High resistance to environmental stress fracture (ESCR)

Good processability

accessible food

Impact resistance

Typical application areas include:

container

packing

food contact applications

General Information	
Features	High ESCR (Stress Cracking Resistance)
	Impact resistance, good
	Workability, good
	Compliance of Food Exposure
Uses	Industrial container
	Container
	Food packaging
Agency Ratings	FDA 21 CFR 177.1640
Forms	Particle
Processing Method	Extrusion
	Thermoforming
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ASTM D638
Tensile Strength (Break)	23.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2120	MPa	ASTM D790
Flexural Strength	35.0	MPa	ASTM D790
Tensile Rupture	25.0	MPa	ASTM D638

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C	180	J/m	ASTM D256
23°C, molded	95	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	94.0	°C	ASTM D648
1.8 MPa, not annealed	86.0	°C	ASTM D648
Vicat Softening Temperature	103	°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	199 - 213	°C	
Middle Temperature	218 - 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

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