



# Resirene® 6420

Resirene, S.A. de C.V. - High Impact Polystyrene

## General Information

### Product Description

#### FEATURES

- High Viscosity
- High Impact
- High Productivity
- Easy to process
- FDA: 21 CFR 177.1640

#### APPLICATIONS

- Sheet Extrusion
- Deep Draw Thermoforming
- Blends with GPPS
- Cups and plates

### General

Features	<ul style="list-style-type: none"> <li>• Fast Molding Cycle</li> <li>• Good Processability</li> </ul>	<ul style="list-style-type: none"> <li>• High Impact Resistance</li> <li>• Low Flow</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Blending</li> <li>• Cups</li> </ul>	<ul style="list-style-type: none"> <li>• Sheet</li> <li>• Thermoforming Applications</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>• FDA 21 CFR 177.1640</li> </ul>	
Processing Method	<ul style="list-style-type: none"> <li>• Extrusion</li> </ul>	<ul style="list-style-type: none"> <li>• Sheet Extrusion</li> <li>• Thermoforming</li> </ul>

## Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	290000	psi	ASTM D638
Tensile Strength (Break)	2900	psi	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.2	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	176	°F	ASTM D648
Vicat Softening Temperature	194	°F	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

## Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	176	°F
Cylinder Zone 2 Temp.	356 to 374	°F
Cylinder Zone 3 Temp.	374 to 392	°F
Cylinder Zone 4 Temp.	392 to 410	°F
Extrusion	Nominal Value	Unit
Cylinder Zone 5 Temp.	410 to 428	°F
Melt Temperature	428	°F