Resirene® 6470

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

General Information

Product Description

FEATURES

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

APPLICATIONS

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

General			
Features	• Fast Molding Cycle • Good Processability	• High Impact Resistance • Low Flow	
Uses	• Blending • Cups	• Kitchenware • Sheet	• Thermoforming Applications
Agency Ratings	• FDA 21 CFR 177.1640		
Processing Method	• Extrusion	• Sheet Extrusion	• Thermoforming

Properties [1]

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	280000	psi	ASTM D638
Tensile Strength (Break)	3050	psi	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (0.125 in)	2.4	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	176	°F	
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