Resirene

TECHNICAL DATA SHEET

RESIRENE® 6470

HIGH IMPACT POLYSTYRENE (HIPS)

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

PROPERTIES

Physical	English	Value	Metric	Value	Test Method
Melt Flow Rate (200°C/5.0 Kg)	g/10 min	3	g/10 min	3	ASTM D1238
Density	lb/ft^3	65	g/cm^3	1.04	ASTM D792
Mechanical					
Break Elongation	%	50	%	50	ASTM D638
Tensile Strength, Break	psi	3,000	MPa	21	ASTM D638
Tensile Modulus	Kpsi	280	MPa	1,930	ASTM D638
Impact					
Notched Izod Impact (⅛ in - 3.175 mm)	$ft\text{-}lb_f/in$	2.4	J/m	128	ASTM D256
Ignition Characteristics					
Flammability	-	HB	-	HB	UL 94
Thermal					
Vicat Temperature	°F	194	°C	90	ASTM D1525
HDT @ 264 psi (unannealed)	°F	176	°C	80	ASTM D648

Properties reported in this data sheet are determined according to referred standard methods. Values shown represent averages from typical results measured in the laboratory and are provided only as a guide, not as specification limits.

EXTRUSION CONDITIONS

	°C	°F
Initial zone	80	176
Feeding zone	180-190	356-374
Transport zone	190-200	374-392
Compression zone	200-210	392-410
Pumping zone	210-220	410-428
Melt	220	392

ADDITIONAL INFORMATION

Warning:

Combustion of this material may cause hazardous fumes and gases that may be dangerous to health, especially in enclosed places.
It should be noted that excessive heating or long residence time may cause degradation or yellowing.

Note:
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Carretera Fed. Puebla-Tlaxcala
Km. 15.5 • CP 90780
Xicohtzinco, Tlaxcala, México

MEX 01 800 RESINAS
USA 1 866 372 3470
www.resirene.com