



# CET 230

## STYRENE-ACRYLIC COPOLYMER

A transparent styrene-acrylic copolymer with sparkling clarity, good toughness and scratch resistance, that is easy to process.

- Rigid
- Easy to process

- Excellent clarity
- FDA: 21 CFR 177.1830

### APPLICATIONS:

Injection molding items like drinkware, kitchen appliances, tableware, cosmetic packaging, medical devices, personal hygiene product packaging, office supplies, toys.

### PROPERTIES

PHYSICAL	Unit	Value	Unit	Value	TEST METHOD
Specific Gravity	g/cm <sup>3</sup>	1.06	lb/in <sup>3</sup>	0.04	ISO 1183
Melt Flow Rate (200 °C/5.0Kg)	g/10 min	6.0	g/10 min	6.0	ASTM D1238
MECHANICAL					
Tensile Strength, Break   0.2 in/min (5 mm/min)	psi	3,750	Mpa	26	ASTM D638
Break Elongation   0.2 in/min (5 mm/min)	%	35	%	35	ASTM D638
Tensile Modulus   0.2 in/min (5 mm/min)	psi	285,000	Mpa	1,967	ASTM D638
IMPACT					
Notched Izod (0.125 in / 3.175 mm)	ft-lbf/in	0.4	J/m	21	ASTM D256
THERMAL					
Vicat Temperature	°F	162	°C	72	ASTM D1525
HDT @ 264 psi (unannealed)	°F	165	°C	74	ASTM D648
OPTICAL					
Light Transmittance	%	88	%	88	ASTM D1003

Typical values represent average laboratory values and are intended as guides only, not as specific specification limits.

Properties designated in this standar have been determined in accordance with the current issue of the specified testing methods.

### INJECTION MOLDING CONDITIONS

	°C	°F
Rear Barrel	160-170	320-338
Middle Barrel	170-180	338-356
Front Barrel	180-190	356-374
Nozzle	200-210	392-410
Mold	40	104
Maximum Recommended	250	482

### ADDITIONAL INFORMATION

Resirene's materials are biological and chemically inert. If possible recycling of final parts is recommended. If you require dispose it, follow indications established by government laws, related norms and the material safety data sheet.

#### WARNING:

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

#### NOTE:

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