



CET 116

STYRENE-ACRYLIC COPOLYMER

A transparent styrene-acrylic copolymer with excellent clarity, good impact resistance, that is easy to process.

- Rigid
- Easy to process
- Meets USP Class VI Plastics
- Excellent clarity
- FDA: 21 CFR 177.1830

APPLICATIONS:

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 ³	1.08	lb/in ³	0.04	ISO 1183
Melt Flow Rate (200 °C/5.0Kg)	g/10 min	2.8	g/10 min	2.8	ASTM D1238
MECHANICAL					
Tensile Strength, Break 0.2 in/min (5 mm/min)	psi	7,550	Mpa	52	ASTM D638
Break Elongation 0.2 in/min (5 mm/min)	%	5	%	5	ASTM D638
Tensile Modulus 0.2 in/min (5 mm/min)	psi	475,000	Mpa	3,278	ASTM D638
IMPACT					
Notched Izod (0.125 in / 3.175 mm)	ft-lbf/in	0.3	J/m	16	ASTM D256
THERMAL					
Vicat Temperature	°F	205	°C	96	ASTM D1525
HDT @ 264 psi (unannealed)	°F	187	°C	86	ASTM D648
IGNITION CHARACTERISICS					
Flammability 0.060 in	-	HB	-	HB	UL94
OPTICAL					
Light Transmittance	%	90	%	90	ASTM D1003
CHEMICAL RESISTANCE at 77°F (exposure time: 30 days)					
Acetic Acid 20%	-	unaffected			ASTM D543
Ethanol 50%	-	unaffected			ASTM D543
Hand Soap 100%	-	unaffected			ASTM D543

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	170-180	338-356
Middle Barrel	180-190	356-374
Front Barrel	200-210	392-410
Nozzle	210-220	410-428
Mold	40	104
Maximum Recommended	250	482

ADDITIONAL INFORMATION

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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