

ColorFast® JCT1000

Americhem - Polycarbonate + ABS + SMA

General Information

Product Description

Unique PC/ABS/SMA alloy with improved processing and reduced plate-out

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Excellent Colorability		
Uses	• Automotive Applications • Closures • Consumer Applications	• Engineering Parts • Household Goods • Housings	• Industrial Applications • Industrial Parts • Office Automation Equipment
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	8700	psi	ASTM D638
Tensile Strength ² (Break)	8100	psi	ASTM D638
Tensile Elongation ² (Yield)	4.0	%	ASTM D638
Tensile Elongation ² (Break)	90	%	ASTM D638
Flexural Modulus ²	392000	psi	ASTM D790
Flexural Strength ²	13800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	12	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	203	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Suggested Shot Size	30 to 60	%
Rear Temperature	410 to 490	°F
Middle Temperature	420 to 500	°F
Front Temperature	440 to 525	°F
Nozzle Temperature	450 to 525	°F
Processing (Melt) Temp	450 to 525	°F
Mold Temperature	140 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 75	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

