

# CP PRYME® ABS A100-20

Chase Plastics Services Inc. - Acrylonitrile Butadiene Styrene

Tuesday, November 22, 2011

## General Information

### General

Material Status	• Commercial: Active
Availability	• North America
Features	• High Gloss • High Impact Resistance
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	12	g/10 min	
230°C/3.8 kg	5.0	g/10 min	
Molding Shrinkage - Flow	0.0040 to 0.0060	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	6100	psi	ASTM D638
Tensile Elongation (Break, 73°F)	30	%	ASTM D638
Flexural Modulus (73°F)	380000	psi	ASTM D790
Flexural Strength (Yield, 73°F)	10500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F, 0.125 in	1.2	ft-lb/in	
73°F, 0.125 in	7.0	ft-lb/in	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	109		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, 0.500 in	197	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.500 in	185	°F	
CLTE - Flow	0.000050	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (0.0591 in, All Colors)	HB		UL 94

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.