

# CP PRYME® ABS A100HIE-84

Acrylonitrile Butadiene Styrene

Chase Plastics Services Inc.

## Message:

Prime ABS, High Impact, Extrusion Grade, Natural

General Information			
Features	Impact resistance, high		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion Extrusion blow molding Sheet extrusion molding		

  

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm <sup>3</sup>	ASTM D792
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.80	%	Internal method

  

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2030	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	39.3	MPa	ASTM D638
Fracture	29.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.1	%	ASTM D638
Fracture	32	%	ASTM D638
Flexural Modulus (50.0 mm Span)	2100	MPa	ASTM D790
Flexural Strength (Yield, 50.0 mm Span)	63.4	MPa	ASTM D790

  

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	430	J/m	ASTM D256
Instrumented Dart Impact	33.3	J	ASTM D3763

  

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	93.3	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	80.6	°C	ASTM D648
Vicat Softening Temperature	107	°C	ASTM D1525
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831

Extrusion	Nominal Value	Unit
Drying Temperature	82 - 93	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	171 - 199	°C
Cylinder Zone 2 Temp.	182 - 221	°C
Cylinder Zone 3 Temp.	188 - 227	°C
Cylinder Zone 4 Temp.	199 - 238	°C
Adapter Temperature	204 - 249	°C
Melt Temperature	216 - 260	°C
Die Temperature	204 - 249	°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

