

**CP PRYME® Polycarbonate PC100RUL-18M BT Clear**

PC

Chase Plastics

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>18</b>	g/10min	ASTM D 1238
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
Mold Shrinkage, MD	<b>0.006</b>	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Charpy impact strength, +23°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>65</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>11</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	<b>65</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>62.1</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>68.9</b>	MPa	ASTM D 638
Elongation at Yield	<b>7</b>	%	ASTM D 638
Elongation at Break	<b>130</b>	%	ASTM D 638
Flexural Modulus	<b>2340</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R118</b>	-	ASTM D 785
Taber Abrasion Resistance	<b>10</b>	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	<b>690</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>3200</b>	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
DTUL @ 66 psi	<b>138</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>129</b>	°C	ASTM D 648
Vicat Temperature	<b>154</b>	°C	ASTM D 1525
Thermal Conductivity, solid state	<b>0.036</b>	W/(m K)	ASTM C 177
Specific Heat	<b>1260</b>	J/(kg K)	ASTM C 351

Optical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Haze	<b>1</b>	%	ASTM D 1003
Light Transmittance	<b>88</b>	%	ASTM D 1003
Index of Refraction	<b>1.59</b>	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	<b>0.15</b>	%	ASTM D 570
Water Absorption, Equilibrium	<b>0.35</b>	%	ASTM D 570
Density	<b>1200</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Delivery form**

Pellets

**Regional Availability**

North America

**Special Characteristics**

Transparent