## Zhongfa PC/ABS CH-110

Polycarbonate + ABS

Yuyao Zhongfa Engineering Plastics Co. Ltd.

## Message:

Zhongfa PC/ABS CH-110 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) material. This product is available in the Asia-Pacific region and is processed by injection molding.

The main features of Zhongfa PC/ABS CH-110 are:

high liquidity

Good processability

Typical application areas include:

Electrical/electronic applications

electrical appliances

Features         Workability, good High liquidity           Uses         Electrical /Electronic Applications Electrical appliances           Forms         Particle           Processing Method         Injection molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.15         g/cm²         ASTM D792           Melt Mass-Flow Rate (MFR)         12         g/10 min         ASTM D935           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         58.0         MPa         ASTM D638           Tensile Isongation (Break)         50         %         ASTM D638           Tensile Isongation (Break)         50         %         ASTM D638           Flexural Modulus         3300         MPa         ASTM D790           Flexural Strength         9.70         MPa         ASTM D790           Flexural Strength         10         "C         ASTM D648           Vicat Softening Temperature Under Load (1.8)         MPa         ASTM D790           Deflection Temperature Under Load (1.8)         MPa         "C         ASTM D648           Wicat Softening Temperature         10         "C         ASTM D648 <tr< th=""><th>General Information</th><th></th><th></th><th></th></tr<>	General Information			
	Features	Workability, good		
Forms		High liquidity		
Forms         Particle           Processing Method         Injection molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.15         g/cm²         ASTM D792           Melt Mass-Flow Rate (MFR)         12         g/10 min         ASTM D1238           Molding Shrinkage - Flow         0.50 - 0.70         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         58.0         MPa         ASTM D638           Flexural Modulus         2300         MPa         ASTM D638           Flexural Strength         97.0         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         *C         ASTM D648           Vicat Softening Temperature         130         *C         ASTM D648           Vicat Softening Temperature         100         *C         ASTM D648           Vicat Softening Temperature         Nominal Value         Unit           Drying Temperature         80.0 - 85.0	Uses	Electrical/Electronic Applications		
Processing Method         Injection molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.15         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR)         12         g/10 min         ASTM D1238           Molding Shrinkage - Flow         0.50 - 0.70         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         58.0         MPa         ASTM D638           Flexural Modulus         2300         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         °C         ASTM D648           Vicat Softening Temperature         130         °C         ASTM D648           Additional Information         Vicat Softening Temperature         Unit         Injection           Notched Izad Impact, ASTM D256: 48 kJm²         Vicat Softening Temperature         Vicat Softening Temperature         Vicat Softening Temperature         Vicat Softening Temperature           Notrice Softening Temperature         Nominal Value         Unit </td <td></td> <td>Electrical appliances</td> <td></td> <td></td>		Electrical appliances		
Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.15         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR)         12         g/10 min         ASTM D1238           Molding Shrinkage - Flow         0.50 - 0.70         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         58.0         MPa         ASTM D638           Flexural Modulus         2300         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         "C         ASTM D648           Vicat Softening Temperature         130         "C         ASTM D1525           Additional Information         "C         ASTM D1525           Nothed Izod Impact, ASTM D256: 48 kJ/m²         Unit         "C           Drying Temperature         80.0 - 85.0         "C         STM D1525           Drying Time         2.0 - 3.0         hr         "C           Processing (Melt) Temp         220 - 240         "C         "C <td>Forms</td> <td>Particle</td> <td></td> <td></td>	Forms	Particle		
Specific Gravity         1.15         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR)         12         g/10 min         ASTM D1238           Molding Shrinkage - Flow         0.50 - 0.70         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         58.0         MPa         ASTM D638           Tensile Elongation (Break)         50         %         ASTM D638           Flexural Modulus         2300         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         °C         ASTM D648           Vicat Softening Temperature         130         °C         ASTM D1525           Additional Information         Vicat Softening Temperature         100         °C         ASTM D1525           Additional Information         Nominal Value         Unit         Unit         Unit           Drying Temperature         80.0 - 85.0         °C         SO         SO           Drying Time         2.0 - 3.0         hr         Test Method         T	Processing Method	Injection molding		
Melt Mass-Flow Rate (MFR)         12         g/10 min         ASTM D1238           Molding Shrinkage - Flow         0.50 - 0.70         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         58.0         MPa         ASTM D638           Tensile Elongation (Break)         50         %         ASTM D638           Flexural Modulus         2300         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         °C         ASTM D648           Vicat Softening Temperature         130         °C         ASTM D1525           Additional Information         Vicat Softening Temperature         Mominal Value         Unit           Notched Izod Impact, ASTM D256: 48 kJ/m²         Vicat Softening Temperature         Mominal Value         Unit           Drying Temperature         80.0 - 85.0         °C         C           Drying Temperature         20 - 3.0         hr         C           Processing (Melt) Temp         20 - 240         °C           Mold Temperature	Physical	Nominal Value	Unit	Test Method
Molding Shrinkage - Flow         0.50 - 0.70         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         58.0         MPa         ASTM D638           Tensile Elongation (Break)         50         %         ASTM D638           Flexural Modulus         2300         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         °C         ASTM D648           Vicat Softening Temperature         130         °C         ASTM D1525           Additional Information         Notched Izod Impact, ASTM D256: 48 kJ/m²           Injection         Nominal Value         Unit           Drying Temperature         80.0 - 85.0         °C           Drying Temperature         2.0 - 3.0         hr           Processing (Melt) Temp         220 - 240         °C           Mold Temperature         40.0 - 80.0         °C	Specific Gravity	1.15	g/cm³	ASTM D792
Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         58.0         MPa         ASTM D638           Tensile Elongation (Break)         50         %         ASTM D638           Flexural Modulus         2300         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         °C         ASTM D648           Vicat Softening Temperature         130         °C         ASTM D1525           Additional Information         Notched Izod Impact, ASTM D256: 48 kJ/m²           Injection         Nominal Value         Unit           Drying Temperature         80.0 - 85.0         °C           Drying Time         2.0 - 3.0         hr           Processing (Melt) Temp         220 - 240         °C           Mold Temperature         40.0 - 80.0         °C	Melt Mass-Flow Rate (MFR)	12	g/10 min	ASTM D1238
Tensile Strength         58.0         MPa         ASTM D638           Tensile Elongation (Break)         50         %         ASTM D638           Flexural Modulus         2300         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         °C         ASTM D648           Vicat Softening Temperature         130         °C         ASTM D1525           Additional Information         Notched Izod Impact, ASTM D256: 48 kJ/m²         Test Method           Injection         Nominal Value         Unit           Drying Temperature         80.0 - 85.0         °C           Drying Time         2.0 - 3.0         hr           Processing (Melt) Temp         220 - 240         °C           Mold Temperature         40.0 - 80.0         °C	Molding Shrinkage - Flow	0.50 - 0.70	%	ASTM D955
Tensile Elongation (Break)         50         %         ASTM D638           Flexural Modulus         2300         MPa         ASTM D790           Flexural Strength         97.0         MPa         ASTM D790           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load (1.8 MPa, Unannealed)         110         °C         ASTM D648           Vicat Softening Temperature         130         °C         ASTM D1525           Additional Information         Unit           Notched Izod Impact, ASTM D256: 48 kJ/m²         Unit           Drying Temperature         80.0 - 85.0         °C           Drying Time         2.0 - 3.0         hr           Processing (Melt) Temp         220 - 240         °C           Mold Temperature         40.0 - 80.0         °C	Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus 2300 MPa ASTM D790  Flexural Strength 97.0 MPa ASTM D790  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (1.8 MPa, Unannealed) 110 °C ASTM D648  Vicat Softening Temperature 130 °C ASTM D1525  Additional Information  Notched Izod Impact, ASTM D256: 48 kJ/m²  Injection Nominal Value Unit  Drying Temperature 80.0 - 85.0 °C  Drying Time 2.0 - 3.0 °C  Mold Temperature 40.0 - 80.0 °C  Mold Temperature 40.0 - 80.0 °C  C	Tensile Strength	58.0	MPa	ASTM D638
Flexural Strength 97.0 MPa ASTM D790 Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (1.8 MPa, Unannealed) 110 °C ASTM D648  Vicat Softening Temperature 130 °C ASTM D1525  Additional Information  Notched Izod Impact, ASTM D256: 48 kJ/m²  Injection Nominal Value Unit  Drying Temperature 80.0 - 85.0 °C  Drying Time 20 - 3.0 hr  Processing (Melt) Temp 220 - 240 °C  Mold Temperature 40.0 - 80.0 °C  MPa	Tensile Elongation (Break)	50	%	ASTM D638
Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load (1.8 MPa, Unannealed) 110 °C ASTM D648  Vicat Softening Temperature 130 °C ASTM D1525  Additional Information  Notched Izod Impact, ASTM D256: 48 kJ/m²  Injection Nominal Value Unit  Drying Temperature 80.0 - 85.0 °C  Drying Time 20 - 3.0 hr  Processing (Melt) Temp 220 - 240 °C  Mold Temperature 40.0 - 80.0 °C	Flexural Modulus	2300	MPa	ASTM D790
Deflection Temperature Under Load (1.8 MPa, Unannealed) 110 °C ASTM D648  Vicat Softening Temperature 130 °C ASTM D1525  Additional Information  Notched Izod Impact, ASTM D256: 48 kJ/m²  Injection Nominal Value Unit  Drying Temperature 80.0 - 85.0 °C  Drying Time 20 - 3.0 hr  Processing (Melt) Temp 220 - 240 °C  Mold Temperature 40.0 - 80.0 °C	Flexural Strength	97.0	MPa	ASTM D790
MPa, Unannealed) 110 °C ASTM D648 Vicat Softening Temperature 130 °C ASTM D1525  Additional Information  Notched Izod Impact, ASTM D256: 48 kJ/m²  Injection Nominal Value Unit  Drying Temperature 80.0 - 85.0 °C  Drying Time 2.0 - 3.0 hr  Processing (Melt) Temp 220 - 240 °C  Mold Temperature 40.0 - 80.0 °C	Thermal	Nominal Value	Unit	Test Method
Additional Information  Notched Izod Impact, ASTM D256: 48 kJ/m²  Injection Nominal Value Unit  Drying Temperature 80.0 - 85.0 °C  Drying Time 2.0 - 3.0 hr  Processing (Melt) Temp 220 - 240 °C  Mold Temperature 40.0 - 80.0 °C		110	°C	ASTM D648
Notched Izod Impact, ASTM D256: 48 kJ/m²  Injection Nominal Value Unit  Drying Temperature 80.0 - 85.0 °C  Drying Time 2.0 - 3.0 hr  Processing (Melt) Temp 220 - 240 °C  Mold Temperature 40.0 - 80.0 °C	Vicat Softening Temperature	130	°C	ASTM D1525
InjectionNominal ValueUnitDrying Temperature80.0 - 85.0°CDrying Time2.0 - 3.0hrProcessing (Melt) Temp220 - 240°CMold Temperature40.0 - 80.0°C	Additional Information			
Drying Temperature         80.0 - 85.0         °C           Drying Time         2.0 - 3.0         hr           Processing (Melt) Temp         220 - 240         °C           Mold Temperature         40.0 - 80.0         °C	Notched Izod Impact, ASTM D256: 48 kJ/m	2		
Drying Time         2.0 - 3.0         hr           Processing (Melt) Temp         220 - 240         °C           Mold Temperature         40.0 - 80.0         °C	Injection	Nominal Value	Unit	
Processing (Melt) Temp 220 - 240 °C Mold Temperature 40.0 - 80.0 °C	Drying Temperature	80.0 - 85.0	°C	
Mold Temperature 40.0 - 80.0 °C	Drying Time	2.0 - 3.0	hr	
	Processing (Melt) Temp	220 - 240	°C	
Injection Pressure 60.0 - 90.0 MPa	Mold Temperature	40.0 - 80.0	°C	
	Injection Pressure	60.0 - 90.0	MPa	

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