

WONDERLOY PC-345

(PC+ABS)

CHIMEI Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	19	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	19	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Yield stress	50	MPa	ISO 527
Stress at break	42	MPa	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Charpy notched impact strength, +23°C	45	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	40	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	45	kJ/m ²	ISO 180/1A
Izod notched impact strength	40	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Strength at Yield	49.1	MPa	ASTM D 638
Elongation at Break	85	%	ASTM D 638
Flexural Modulus	2256	MPa	ASTM D 790
Flexural Strength	73.8	MPa	ASTM D 790
Rockwell Hardness	R 108	-	ASTM D 785
Izod Impact notched, 1/8 in	491	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	443	J/m	ASTM D 256
Temperature	-34.4	°C	-
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	93	°C	ISO 75-1/-2
Vicat softening temperature, A	125	°C	ISO 306
Vicat softening temperature, B	110	°C	ISO 306
Coeff. of linear therm. expansion, parallel	85	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 264 psi	95	°C	ASTM D 648
Vicat Temperature	125	°C	ASTM D 1525
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	3.1	-	IEC 62631-2-1
Volume resistivity	1E16	Ohm*m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2
Other properties			
Value			
Density	1100	kg/m ³	ISO 1183
Density	1100	kg/m ³	ASTM D 792

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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	4	h	-
Mold temperature	50 - 100	°C	-
Zone 1	230 - 270	°C	-

Characteristics**Processing**

Injection Molding

Applications

Automotive, Electrical and Electronical, General Purpose

Delivery form

Pellets

Regional Availability

Asia Pacific