

**C-Clear™ K7040**

ABS

Shanghai Kumho Sunny Plastics Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	12	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Strength	45	MPa	ISO 527
Strain at break	25	%	ISO 527
Flexural modulus, 23°C	2300	MPa	ISO 178
Flexural strength	65	MPa	ISO 178
Izod impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	16	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	9	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
Rockwell hardness	R 106	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	85	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	100	°C	ISO 75-1/-2
Vicat softening temperature, B	104	°C	ISO 306
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.6	mm	-

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Volume resistivity	1E15	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	1050	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	230 - 250	°C	-
Mold temperature	50 - 80	°C	-
Zone 1	190 - 210	°C	-
Zone 2	210 - 220	°C	-
Zone 3	220 - 235	°C	-
Nozzle temperature	230 - 245	°C	-
Screw speed	30 - 70	rpm	-
Back pressure	1 - 5	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Asia Pacific

**Special Characteristics**

U.V. stabilized or stable to weather, Heat stabilized or stable to heat