

BM510

ABS

Shanghai Kumho Sunny Plastics Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	5	g/10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	42	MPa	ISO 527
Strain at break	35	%	ISO 527
Flexural modulus, 23°C	2000	MPa	ISO 178
Flexural strength	62	MPa	ISO 178
Charpy notched impact strength, +23°C	20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
Rockwell hardness	R 105	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	85	°C	ISO 75-1/-2
Vicat softening temperature, B	100	°C	ISO 306
Burning rate, FMVSS, Thickness 1 mm	80	mm/min	ISO 3795 (FMVSS 302)

Other properties	Value	Unit	Test Standard
Density	1040	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	180 - 220	°C	-
Mold temperature	30 - 50	°C	-
Zone 1	170 - 190	°C	-
Zone 2	180 - 200	°C	-
Zone 3	190 - 220	°C	-
Nozzle temperature	180 - 210	°C	-

Characteristics**Processing**

Injection Molding, Blow Molding

Regional Availability

Asia Pacific

Special Characteristics

High impact or impact modified