

MALECCA K-300

ABS

Denka Company Limited

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	4	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2450	MPa	ISO 527
Yield stress	48	MPa	ISO 527
Stress at break	40	MPa	ISO 527
Flexural modulus, 23°C	2450	MPa	ISO 178
Flexural strength	79	MPa	ISO 178
Charpy notched impact strength, +23°C	16	kJ/m ²	ISO 179/1eA
Rockwell hardness	R 116	-	ISO 2039-2
ASTM Data			
Flexural Modulus	2250	MPa	ASTM D 790
Flexural Strength	75	MPa	ASTM D 790
Rockwell Hardness	R 114	-	ASTM D 785
Izod Impact notched, 1/8 in	176	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	100	°C	ISO 75-1/-2
Vicat softening temperature, B	120	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Yellow Card available	yes	-	-
ASTM Data			
DTUL @ 264 psi	110	°C	ASTM D 648
Vicat Temperature	120	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1080	kg/m ³	ISO 1183
Density	1060	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 100	°C	-
Pre-drying - Time	3 - 4	h	-
Mold temperature	50 - 80	°C	-
Zone 1	210 - 230	°C	-
Zone 2	220 - 250	°C	-
Zone 3	230 - 260	°C	-
Nozzle temperature	230 - 250	°C	-
Screw speed	50 - 80	rpm	-
Back pressure	0.5 - 1	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Heat stabilized or stable to heat