

DENKA GR-2000LG

ABS

Denka Company Limited

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	9	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
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	37	MPa	ISO 527
Stress at break	29	MPa	ISO 527
Flexural modulus, 23°C	1950	MPa	ISO 178
Flexural strength	61	MPa	ISO 178
Charpy notched impact strength, +23°C	32	kJ/m ²	ISO 179/1eA
Rockwell hardness	R 99	-	ISO 2039-2
ASTM Data			
Flexural Modulus	1900	MPa	ASTM D 790
Flexural Strength	57	MPa	ASTM D 790
Rockwell Hardness	R 99	-	ASTM D 785
Izod Impact notched, 1/8 in	336	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	77	°C	ISO 75-1/-2
Vicat softening temperature, B	97	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Yellow Card available	yes	-	-
ASTM Data			
DTUL @ 264 psi	86	°C	ASTM D 648
Vicat Temperature	98	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1030	kg/m ³	ISO 1183
Density	1030	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 85	°C	-
Pre-drying - Time	2 - 3	h	-
Mold temperature	40 - 60	°C	-
Zone 1	180 - 200	°C	-
Zone 2	200 - 230	°C	-
Zone 3	210 - 260	°C	-
Nozzle temperature	210 - 255	°C	-
Screw speed	80 - 20	rpm	-
Back pressure	0.5 - 1	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific