

LEMALLOY C82HL

(PPE+PA66)

Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	90 / *	cm ³ /10min	ISO 1133
Temperature	280 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	1.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.2 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	2600 / 1500	MPa	ISO 527
Yield stress	60 / 45	MPa	ISO 527
Yield strain	4.8 / 19	%	ISO 527
Strain at break	47 / 88	%	ISO 527
Flexural modulus, 23°C	2400 / 1500	MPa	ISO 178
Flexural strength	90 / 60	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	20 / 62	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	70 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	165 / *	°C	ISO 75-1/-2
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	3.2 / -	-	IEC 62631-2-1
Dissipation factor, 1MHz	120 / -	E-4	IEC 62631-2-1
Volume resistivity	2E13 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 7E14	Ohm	IEC 62631-3-2
Electric strength	33 / -	kV/mm	IEC 60243-1
Other properties			
Density	1130 / -	kg/m ³	ISO 1183
Processing Recommendation Injection Molding			
	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	2 - 4	h	-
Mold temperature	60 - 100	°C	-
Zone 1	240 - 260	°C	-
Zone 2	250 - 280	°C	-
Zone 3	250 - 280	°C	-
Nozzle temperature	250 - 280	°C	-
Screw speed	60 - 150	rpm	-
Injection pressure	20 - 150	MPa	-

Characteristics**Processing**

Injection Molding

Features

Acoustical Barrier Properties

Applications

Automotive, Electrical and Electronical, General Purpose

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa