

CompaDur® 121 natural (001)

PBT

DimeLika Plast GmbH

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	38	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	2600	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	4	%	ISO 527
Nominal strain at break	35	%	ISO 527
Strain at break	35	%	ISO 527
Flexural modulus, 23°C	2300	MPa	ISO 178
Charpy impact strength, +23°C	230	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	100	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4.5	kJ/m ²	ISO 179/1eA
Ball indentation hardness	140	MPa	ISO 2039-1
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	223	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	55	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	160	°C	ISO 75-1/-2
Vicat softening temperature, B	185	°C	ISO 306
Coeff. of linear therm. expansion, parallel	130	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	130	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Glow Wire Flammability Index (GWFI)	750	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	3.4	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.2	-	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	27	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
Other properties			
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.25	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	120	cm ³ /g	ISO 307, 1157, 1628
Processing Recommendation Injection Molding			
Pre-drying - Temperature	120 - 140	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-

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Melt temperature	260 - 270	°C	-
Mold temperature	75 - 100	°C	-
Zone 1	250 - 265	°C	-
Nozzle temperature	260 - 270	°C	-
Screw speed	80	rpm	-
Injection pressure	60 - 100	MPa	-
Back pressure	1 - 3	MPa	-
Holding pressure	40 - 80	MPa	-
Maximum residence time	10	min	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Delivery form

Pellets, Natural Color