

Product Texts

Partially bio-circular grade / Attributed via mass balance (according to ISCC PLUS Standard).

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	38	cm ³ /10min	ISO 1133
Temperature	270	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2200	MPa	ISO 527
Yield stress	54	MPa	ISO 527
Yield strain	4.8	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Stress at break	48	MPa	ISO 527
Flexural modulus, 23°C	2200	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	45	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	20	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	45	kJ/m ²	ISO 180/1A
Izod notched impact strength	20	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Puncture - maximum force, +23°C	3900	N	ISO 6603-2
Puncture - maximum force, -30°C	5000	N	ISO 6603-2
Puncture energy, +23°C	42	J	ISO 6603-2
Puncture energy, -30°C	48	J	ISO 6603-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	98	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	126	°C	ISO 75-1/-2
Vicat softening temperature, B	138	°C	ISO 306
Coeff. of linear therm. expansion, parallel	81	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	82	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	1210	kg/m ³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	270	°C	ISO 294
Injection Molding, mold temperature	70	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	220 - 230	°C	-
Zone 2	240 - 250	°C	-

Zone 3	250 - 260	°C	-
Nozzle temperature	270 - 280	°C	-
Back pressure	5 - 10	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

High impact or impact modified

Certifications

Contains renewable resources, ISCC Plus

Applications

Automotive

Regional Availability

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