

Product Texts

Terluran® ECO GP-22 MR50 is a mechanical post consumer recycling (PCR) grade, with a PCR content of 50% in a standard black color. It combines easy-flow, high impact resistance and heat distortion with high quality surface finish; intended for a wide range of applications and visible parts.

PCR content 50 %

dark grey

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	19	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
^[C] Density of melt	935	kg/m ³	-
^[C] Thermal conductivity of melt	0.184	W/(m K)	-
^[C] Spec. heat capacity of melt	2520	J/(kg K)	-
^[C] Ejection temperature	83	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2100	MPa	ISO 527
^[C] Yield stress	35	MPa	ISO 527
^[C] Yield strain	2.6	%	ISO 527
^[C] Nominal strain at break	8	%	ISO 527
^[C] Charpy notched impact strength, +23°C	18	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	7	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Vicat softening temperature, B	95	°C	ISO 306
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1040	kg/m ³	ISO 1183
Recycled resin content	50	%	-
Bulk density	600	kg/m ³	-

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	220 - 260	°C	-
Mold temperature	30 - 80	°C	-

Characteristics**Processing**

Injection Molding

Features

High Gloss

Delivery form

Pellets

Certifications

Recycled Resin Content, Post-Consumer Recyclate

Additives

Lubricants

Applications

Electrical and Electronical

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Regional Availability

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

Other text information**Injection molding**

PREPROCESSING

Pre-drying, Temperature: 80°C

Pre-drying, Time: 2 - 4h

PROCESSING

Melt temperature, range: 220 - 260°C

Mold temperature, range: 30 - 80°C