

Terluran® ECO GP-22 MR50

ABS

INEOS Styrolution

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.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	19	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	35	MPa	ISO 527
Yield strain	2.6	%	ISO 527
Nominal strain at break	8	%	ISO 527
Notched Impact Strength (Charpy), +23 °C	18	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30 °C	7	kJ/m ²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50 °C/h 50N	95	°C	ISO 306
Burning Behav. at 1.5 mm Nom. Thickn.	HB	class	UL 94
Thickness tested	1.5	mm	-
UL recognition	yes	-	-

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1040	kg/m ³	ISO 1183
Bulk density	600	kg/m ³	-

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	935	kg/m ³	-
Thermal Conductivity of Melt	0.184	W/(m K)	-
Spec. heat capacity of melt	2520	J/(kg K)	-
Ejection temperature	83	°C	-

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

Additives

Lubricants

Applications

Electrical and Electronical

Special Characteristics

Impact modified, Heat aging stabilized

Injection Molding

PREPROCESSING

Pre-drying, Temperature: 80 °C

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Pre-drying, Time: 2 - 4h

PROCESSING

Melt temperature, range: 220 - 260°C

Mold temperature, range: 30 - 80°C