Terluran ECO® GP-35 BC60

ABS — INEOS Styrolution

Product Texts

Terluran® ECO GP-35 BC60 is a high-flow, general purpose injection molding grade with good ductility, intended for moldings with thin walls and/or adverse flow length to wall ratio. Terluran® ECO GP-35 BC60 contains bio-attributed content from styrene monomer from renewable sources, The use of renewable feedstock brings significant product carbon footprint savings. Terluran® ECO GP-35 BC60 is produced according to an ISCC-certified mass balance approach, and has identical physical and mechanical properties as its fossil-based counterpart. All the same regulatory documents are also available.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**34**	cm³/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
[C] Density of melt	**934**	kg/m³	-
[C] Thermal conductivity of melt	**0.18**	W/(m K)	-
[C] Spec. heat capacity of melt	**2300**	J/(kg K)	-
[C] Ejection temperature	**84**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2300**	MPa	ISO 527
[C] Yield stress	**44**	MPa	ISO 527
[C] Yield strain	**2.4**	%	ISO 527
[C] Nominal strain at break	**12**	%	ISO 527
[C] Charpy impact strength, +23°C	**125**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**90**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**19**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**7**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**92**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**95**	°C	ISO 75-1/-2
[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] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**1E13**	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.95**	%	Sim. to ISO 62
[C] Humidity absorption	**0.24**	%	Sim. to ISO 62
[C] Density	**1040**	kg/m³	ISO 1183

[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

Delivery form
Pellets

Additives
Lubricants

Features
Ductile

Certifications
Contains renewable resources, ISCC Plus

Applications
General Purpose

Regional Availability
Europe, 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