

Terluran® GP-35 White

ABS

INEOS Styrolution

Terluran® GP-35 White is a new version of Terluran GP-35 containing a primary package of white pigments and UV stabilization. Just as GP-35 this new grade is suitable for self-coloring with the additional benefit to already contain a primary white and UV formulation and thus the product can create significant savings of master batch consumption in light colors. Terluran GP-35 White 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-thickness ratio.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	34	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	44	MPa	ISO 527
Yield strain	2.4	%	ISO 527
Nominal strain at break	12	%	ISO 527
Impact Strength (Charpy), +23°C	125	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	90	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	19	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	7	kJ/m ²	ISO 179/1eA
Flexural strength	65	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	22	kJ/m ²	ISO 180/1A
Notched Impact Strength (Izod)	7	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Ball Indentation Hardness	99	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	92	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	95	°C	ISO 75-1/-2
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	-	-
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	3.0	mm	-
UL recognition	yes	-	-

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.95	%	Sim. to ISO 62
Humidity absorption	0.24	%	Sim. to ISO 62
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	934	kg/m ³	-
Thermal Conductivity of Melt	0.18	W/(m K)	-
Spec. heat capacity of melt	2300	J/(kg K)	-
Ejection temperature	84	°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	-

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Mold temperature	30 - 80	°C	-
Injection speed	200	mm/s	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets, White

Additives

Lubricants

Special Characteristics

Impact modified, UV stabilized, Heat aging stabilized

Features

Ductile, High Gloss

Applications

Electrical and Electronical, Encapsulation, General Purpose

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