

# CAMPUS® Datasheet

Terluran® GP-35 - ABS

INEOS Styrolution Europe GmbH

INEOS  
STYROLUTION

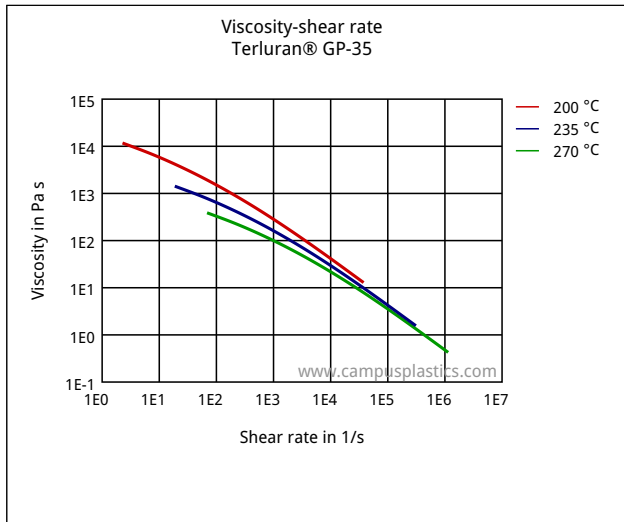
## Product Texts

Easy-flow injection moulding product with good ductility, intended for mouldings with thin walls and/or adverse flow length to wall ratio.

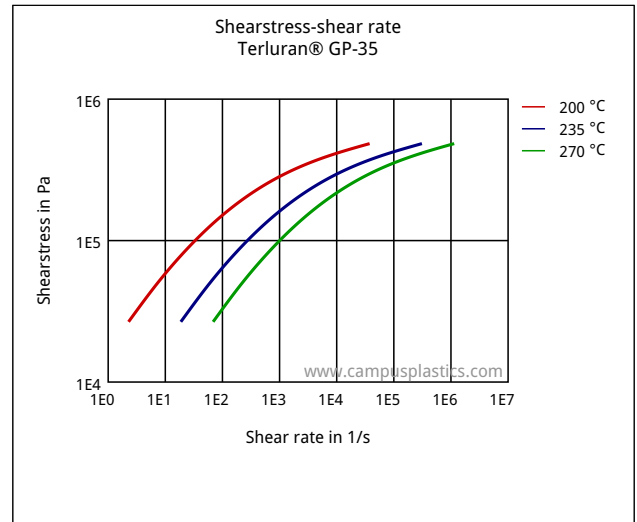
Rheological properties	Value	Unit	Test Standard
Melt volume-flow rate, MVR	34	cm <sup>3</sup> /10min	ISO 1133
Temperature	220	°C	ISO 1133
Load	10	kg	ISO 1133
Mechanical properties	Value	Unit	Test Standard
Tensile modulus	2300	MPa	ISO 527-1/-2
Yield stress	44	MPa	ISO 527-1/-2
Yield strain	2.4	%	ISO 527-1/-2
Nominal strain at break	12	%	ISO 527-1/-2
Charpy impact strength, +23°C	125	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	19	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal properties	Value	Unit	Test Standard
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
Coeff. of linear therm. expansion, parallel	95	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested (1.5)	1.5	mm	IEC 60695-11-10
Yellow Card available	Yes	-	-
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested (h)	0.8	mm	IEC 60695-11-10
Electrical properties	Value	Unit	Test Standard
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E13	Ohm	IEC 62631-3-2
Electric strength	41	kV/mm	IEC 60243-1
Other properties	Value	Unit	Test Standard
Water absorption	0.95	%	Sim. to ISO 62
Humidity absorption	0.24	%	Sim. to ISO 62
Density	1040	kg/m <sup>3</sup>	ISO 1183
Rheological calculation properties	Value	Unit	Test Standard
Density of melt	930	kg/m <sup>3</sup>	-
Thermal conductivity of melt	0.16	W/(m K)	-
Spec. heat capacity melt	2300	J/(kg K)	-
Ejection temperature	84	°C	-
Test specimen production	Value	Unit	Test Standard
Injection Molding, melt temperature	250	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

**Diagrams**

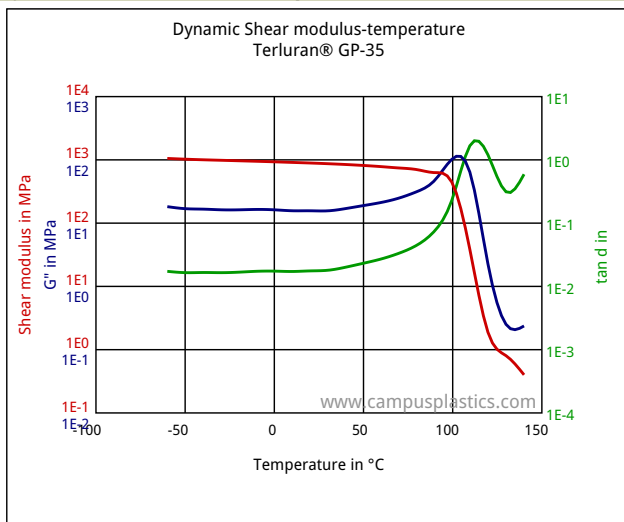
**Viscosity-shear rate**



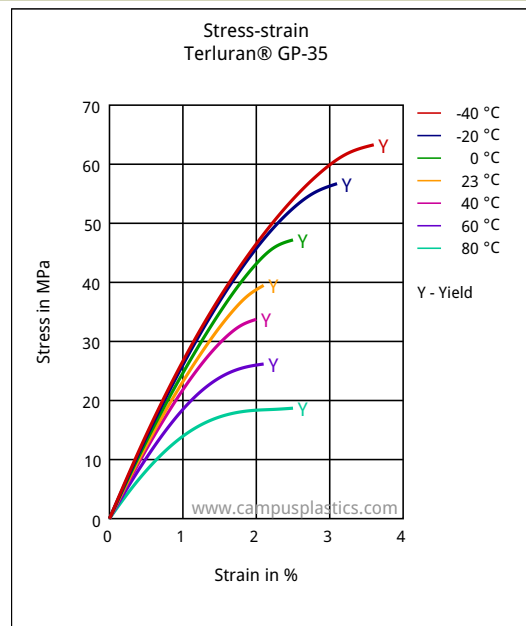
**Shearstress-shear rate**



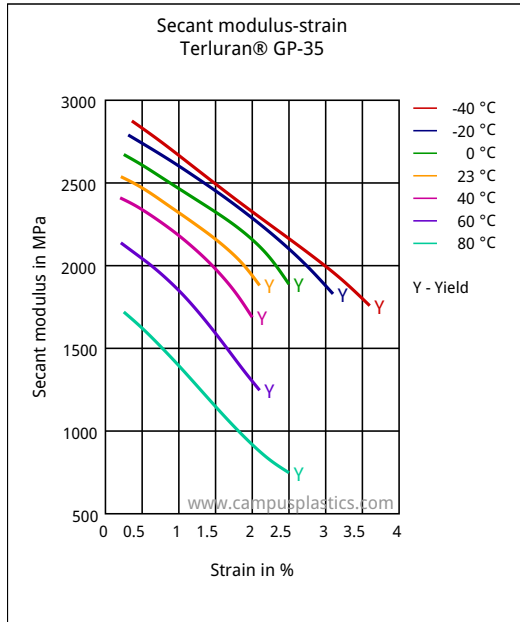
**Dynamic Shear modulus-temperature**



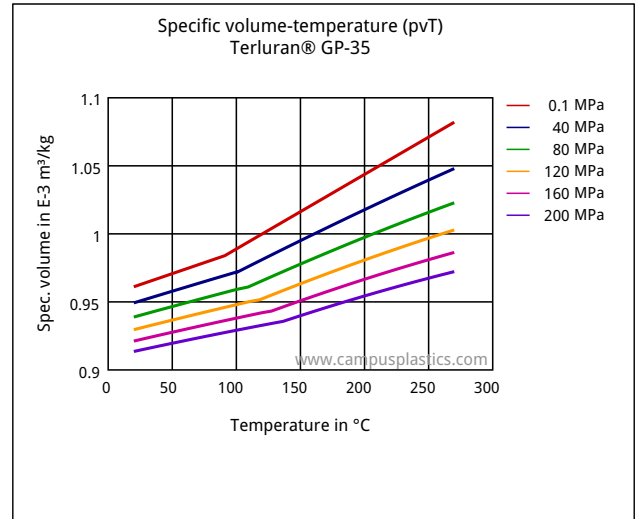
**Stress-strain**



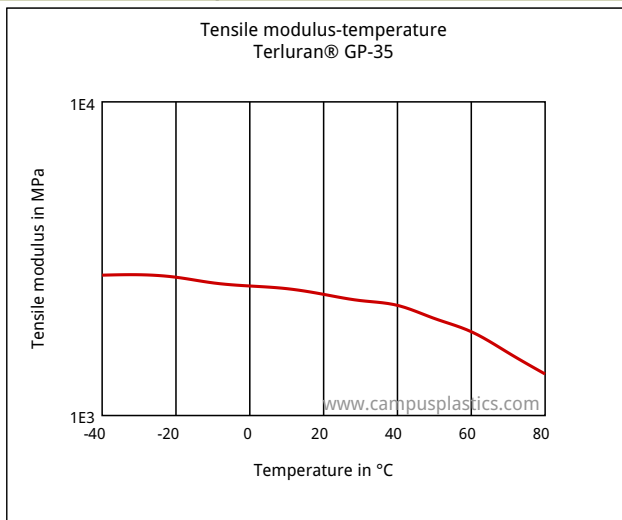
**Secant modulus-strain**



**Specific volume-temperature (pvT)**



**Tensile modulus-temperature**



**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Pellets

**Additives**

Lubricants

**Other text information**

**Injection molding**

PREPROCESSING

**Special Characteristics**

Platable

**Regional Availability**

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

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## INEOS Styrolution Europe GmbH

Pre/Post-processing, Pre-drying, Temperature: 80 °C  
Pre/Post-processing, Pre-drying, Time: 2 - 4 h

### PROCESSING

injection molding, Melt temperature, range: 220 - 260 °C  
injection molding, Melt temperature, recommended: 250 °C  
injection molding, Mold temperature, range: 30 - 60 °C  
injection molding, Mold temperature, recommended: 50 °C

### Chemical Media Resistance

#### Acids

- ☺ Acetic Acid (5% by mass) (23°C)
- ☺ Citric Acid solution (10% by mass) (23°C)
- ☺ Lactic Acid (10% by mass) (23°C)
- ☺ Hydrochloric Acid (36% by mass) (23°C)
- ☹ Nitric Acid (40% by mass) (23°C)
- ☹ Sulfuric Acid (38% by mass) (23°C)
- ☹ Sulfuric Acid (5% by mass) (23°C)
- ☹ Chromic Acid solution (40% by mass) (23°C)

#### Bases

- ☹ Sodium Hydroxide solution (35% by mass) (23°C)
- ☹ Sodium Hydroxide solution (1% by mass) (23°C)
- ☹ Ammonium Hydroxide solution (10% by mass) (23°C)

#### Alcohols

- ☹ Isopropyl alcohol (23°C)
- ☺ Methanol (23°C)
- ☺ Ethanol (23°C)

#### Hydrocarbons

- ☹ n-Hexane (23°C)
- ☹ Toluene (23°C)
- ☺ iso-Octane (23°C)

#### Ketones

- ☹ Acetone (23°C)

#### Ethers

- ☹ Diethyl ether (23°C)

#### Standard Fuels

- ☺ Diesel fuel (pref. ISO 1817 Liquid F) (23°C)





#### Salt solutions

- ☺ Sodium Chloride solution (10% by mass) (23°C)
- ☺ Sodium Hypochlorite solution (10% by mass) (23°C)
- ☺ Sodium Carbonate solution (20% by mass) (23°C)
- ☺ Sodium Carbonate solution (2% by mass) (23°C)
- ☺ Zinc Chloride solution (50% by mass) (23°C)

#### Other

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-  Ethyl Acetate (23°C)
-  Hydrogen peroxide (23°C)
-  1% nonylphenoxy-polyethyleneoxy ethanol in water (23°C)
-  Water (23°C)

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