

**Technical Data**

**Product Description**

Terluran GP-35 is high-flow, general purpose injection molding grade with good ductility, intended for moldings with thin walls and/or adverse flow length to wall ratio.

**General**

Material Status	• Commercial: Active		
Literature <sup>1</sup>	• <a href="#">Technical Datasheet - ISO (English)</a> • <a href="#">Technical Datasheet (English)</a>		
UL Yellow Card <sup>2</sup>	• <a href="#">E108538-218716</a>		
Search for UL Yellow Card	• <a href="#">Styrolution</a> • <a href="#">Terluran®</a>		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Ductile • General Purpose • Good Colorability	• Good Impact Resistance • Good Surface Finish • High Flow	• High Gloss
Uses	• Appliances • Automotive Applications • General Purpose	• Household Goods • Sanitary Products • Telecommunications	• Thin-walled Parts • Toys
Forms	• Pellets		
Processing Method	• Injection Molding		
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-1) • Viscosity vs. Shear Rate (ISO 11403-2)	

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.04 g/cm <sup>3</sup>	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR)		ASTM D1238
200°C/5.0 kg	3.1 g/10 min	
220°C/10.0 kg	34 g/10 min	
Melt Volume-Flow Rate (MVR)		ASTM D1238 ISO 1133
230°C/3.8 kg	11.0 cm <sup>3</sup> /10min	
220°C/10.0 kg	34.0 cm <sup>3</sup> /10min	
Molding Shrinkage		
Flow	0.40 to 0.70 %	ASTM D955
--	0.40 to 0.70 %	ISO 294-4
Water Absorption		ASTM D570 ISO 62
Saturation, 23°C	0.95 %	
Equilibrium, 23°C, 50% RH	0.24 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
--	2500 MPa	ASTM D638
--	2300 MPa	ISO 527-2
Tensile Strength		
Yield, 23°C	45.0 MPa	
Yield, 23°C	44.0 MPa	ISO 527-2
Tensile Strain		
Yield, 23°C	2.4 %	ISO 527-2
Break	2.4 %	ASTM D638
Nominal Tensile Strain at Break (23°C)	12 %	ISO 527-2

Mechanical	Nominal Value Unit	Test Method
Flexural Modulus	2350 MPa	ASTM D790
Flexural Strength	65.0 MPa	ASTM D790 ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-30°C	7.0 kJ/m <sup>2</sup>	
23°C	19 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength		ISO 179
-30°C	90 kJ/m <sup>2</sup>	
23°C	130 kJ/m <sup>2</sup>	
Notched Izod Impact		
-30°C	80 J/m	ASTM D256
-18°C	85 J/m	ASTM D256
23°C	240 J/m	ASTM D256
-30°C	7.0 kJ/m <sup>2</sup>	ISO 180/A
23°C	22 kJ/m <sup>2</sup>	ISO 180/A
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	102	ASTM D785
Ball Indentation Hardness	99.0 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	88.9 °C	ASTM D648
0.45 MPa, Annealed	101 °C	ASTM D648
0.45 MPa, Annealed	95.0 °C	ISO 75-2/B
1.8 MPa, Unannealed	75.0 °C	ASTM D648
1.8 MPa, Annealed	96.7 °C	ASTM D648
1.8 MPa, Annealed	92.0 °C	ISO 75-2/A
Vicat Softening Temperature		
--	102 °C	ISO 306/A50
--	95.0 °C	ISO 306/B50
CLTE - Flow	0.000080 to 0.00011 cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17 W/m/K	DIN 52612
Electrical	Nominal Value Unit	Test Method
Volume Resistivity		
--	> 1.0E+15 ohm·cm	ASTM D257
--	1.0E+15 ohm·cm	IEC 60093
Dielectric Constant (1.00 mm, 1 MHz)	2.80	ASTM D150
Optical	Nominal Value Unit	Test Method
Yellowness Index	15 YI	DIN 6167
Injection	Nominal Value Unit	
Drying Temperature	80.0 °C	
Drying Time	2.0 to 4.0 hr	
Processing (Melt) Temp	220 to 260 °C	
Mold Temperature	30.0 to 60.0 °C	

**Injection Notes**

Injection Velocity: 200 mm/s

#### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

## Where to Buy

### Supplier

#### Styrolution

Wyandotte, MI USA  
**Telephone:** 734-324-6100  
**Web:** <http://www.styrolution.com/>

### Distributor

#### Amco Polymers

**Telephone:** 800-262-6685  
**Web:** <http://www.amcopolymers.com/>  
**Availability:** North America

#### Channel Prime Alliance

**Telephone:** 800-247-8038  
**Web:** <http://www.channelpa.com/>  
**Availability:** North America

#### Entec Polymers

**Telephone:** 800-375-5440  
**Web:** <http://www.entecpolymers.com/>  
**Availability:** North America

#### GAZECHIM PLASTIQUES

*GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.*

**Telephone:** +33-4-67-49-55-37  
**Web:** <http://www.gazechim.com/>  
**Availability:** France

#### M. Holland Canada Company

**Telephone:** 905-665-1168  
**Web:** <http://www.mholland.com/>  
**Availability:** Canada

#### M. Holland Company

**Telephone:** 855-497-1403  
**Web:** <http://www.mholland.com/>  
**Availability:** Mexico, United States

#### Telko Oy

*Telko Oy is a Pan European distribution company. Contact Telko Oy for availability of individual products by country.*

**Telephone:** +358-9-5211  
**Web:** <http://www.telko.com/>  
**Availability:** Belarus, Estonia, Latvia, Lithuania, Russian Federation, Ukraine

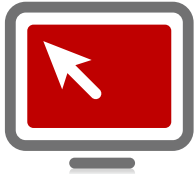
#### Ultrapolymers

*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

**Telephone:** +32-11-57-95-57  
**Web:** <http://www.ultrapolymers.com/>  
**Availability:** Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, Germany, Ireland, Italy, Latvia, Lithuania, Macedonia, Norway, Portugal, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom



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– Birgit Elvardt Bader, Production Manager, Micotron

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**Automotive Plastics Search** – easily locate automotive approved plastics.

**Curve Data** – view, overlay and export curve data.



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