+135-3858-6433 (GuangDong)
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INEOS Styrolution

ALBIS

Terlux® 2812

MABS — INEOS Styrolution

Terlux® 2812 is an easy-flowing injection molding grade based on a MABS polymer. Terlux® 2812 offers an unique combination of properties, such as a balanced stiffness/toughness ratio and the high transparency well known in SAN molding compositions.Food contact statements are available on request.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	8	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1900	MPa	ISO 527
Yield stress	42	MPa	ISO 527
Yield strain	4	%	ISO 527
Nominal strain at break	20	%	ISO 527
Impact Strength (Charpy), +23°C	110	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	70	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	2	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	87	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	93	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	87	°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	-	-

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.35	%	Sim. to ISO 62
Density	1080	kg/m³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Thermal Conductivity of Melt	0.155	W/(m K)	-
Spec. heat capacity of melt	2340	J/(kg K)	-
Ejection temperature	90	°C	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70	°C	-
Pre-drying - Time	2	h	-
Melt temperature	230 - 260	°C	-
Mold temperature	50 - 80	°C	-

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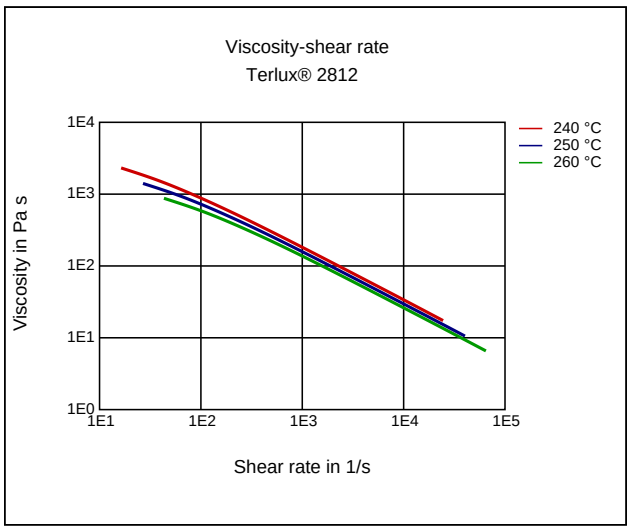
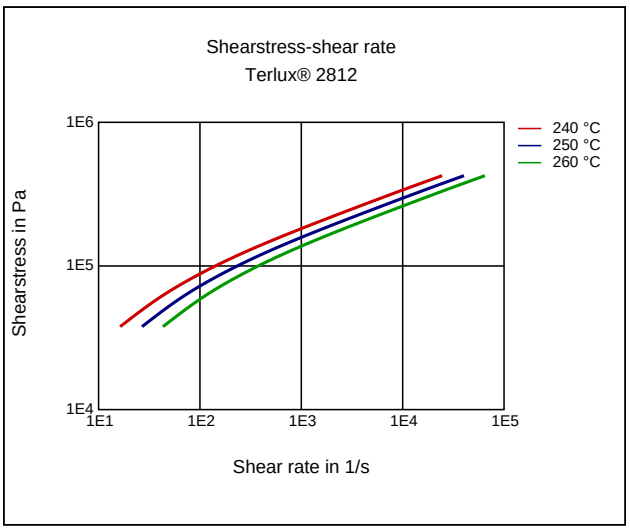
Diagrams

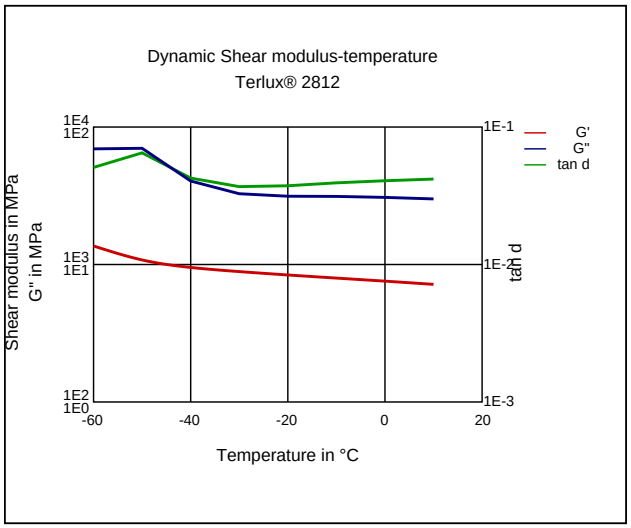
Viscosity-shear rate



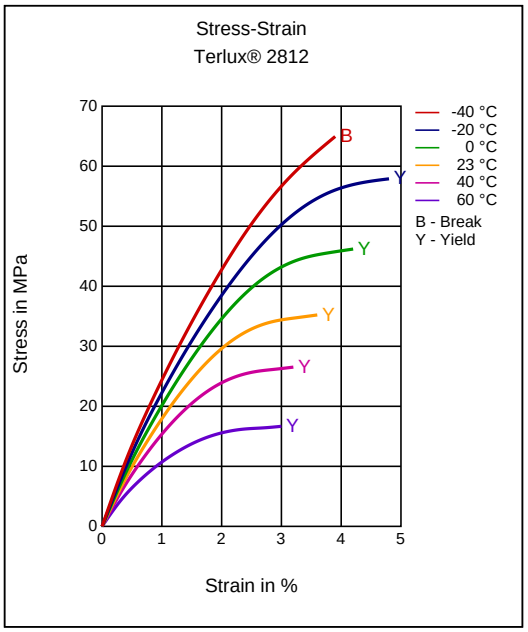
Shearstress-shear rate



Dynamic Shear modulus-temperature



Stress-strain



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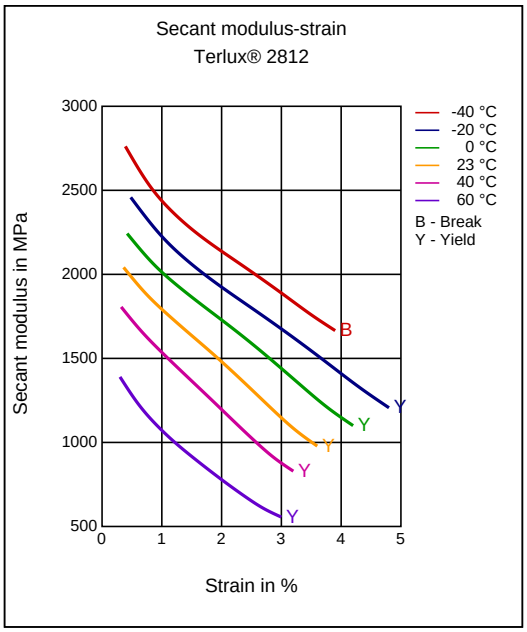
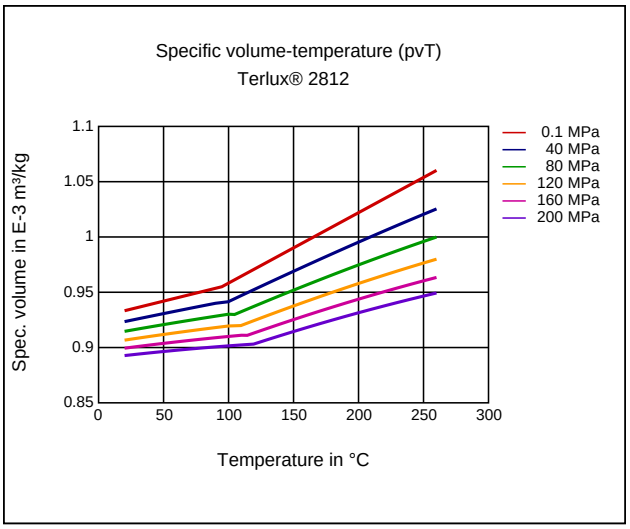
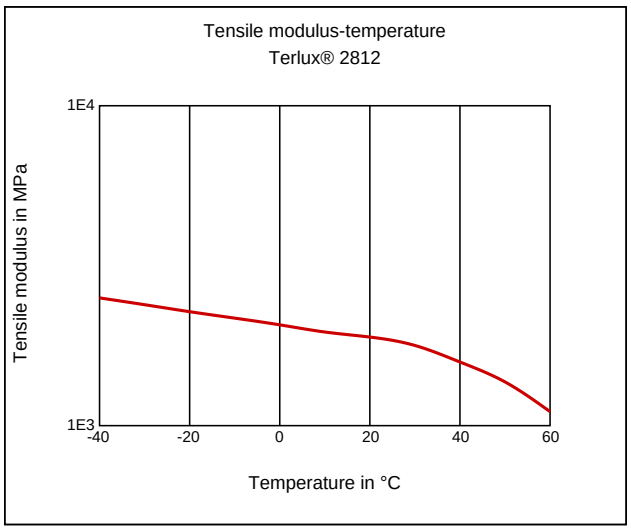
Secant modulus-strain



Specific volume-temperature (pvT)



Tensile Modulus-Temperature



Characteristics

Processing

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Blow Molding, Thermoforming

Special Characteristics

Transparent

Delivery form

Pellets

Injection Molding

PREPROCESSING

Pre-drying, Temperature: 70 °C

Pre-drying, Time: 2h

PROCESSING

Melt temperature, range: 230 - 260 °C

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Mold temperature, range: 50 - 75 °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)
- ✔ 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

- ✔ Methanol (23 °C)
- ✔ Ethanol (23 °C)

Hydrocarbons

- ✔ iso-Octane (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

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