


XANTAR® 22 UR
PC

Mitsubishi Engineering-Plastics Corporation

Product Texts

Low Viscosity, UV Stabilized, Molding Release

ISO 1043 PC

[XANTAR® Polycarbonate & Blends, your global partner for innovative added value](#)

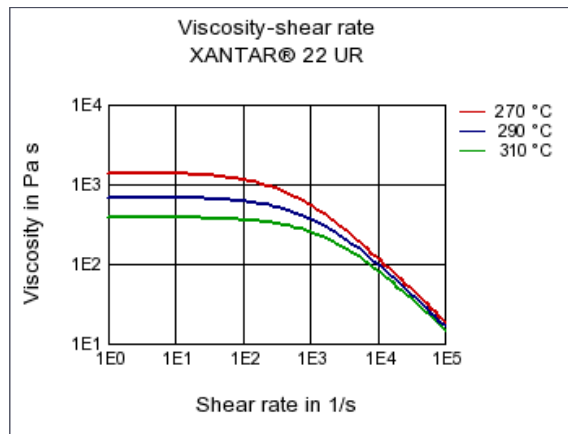
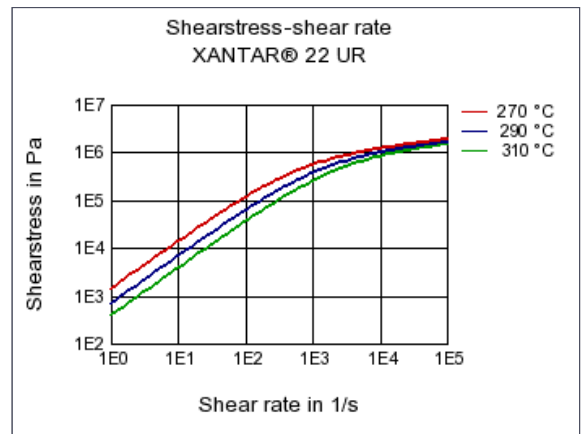
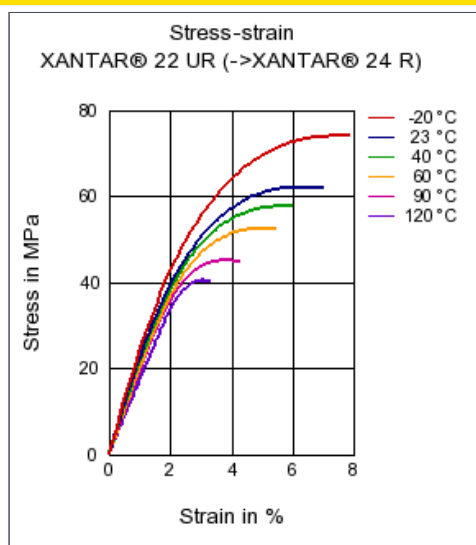
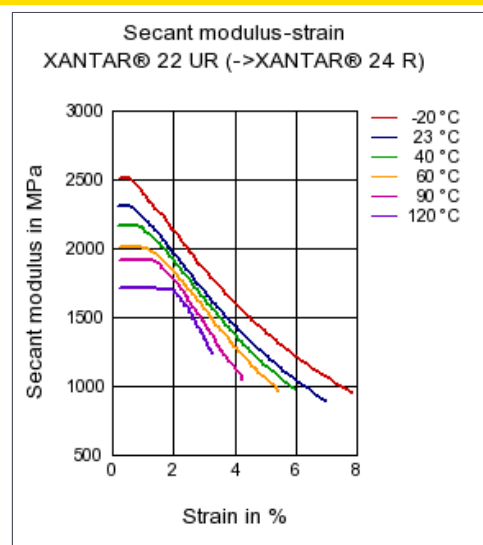
Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10	cm³/10min	ISO 1133
Temperature	300	°C	ISO 1133
Load	1.2	kg	ISO 1133
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	2300	MPa	ISO 527-1/-2
Yield stress	60	MPa	ISO 527-1/-2
Yield strain	6	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Puncture - maximum force, +23°C	5800	N	ISO 6603-2
Puncture - maximum force, -30°C	6800	N	ISO 6603-2
Puncture energy, +23°C	70	J	ISO 6603-2
Puncture energy, -30°C	75	J	ISO 6603-2
Thermal properties			
ISO Data			
Temp. of deflection under load (1.80 MPa)	130	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	148	°C	ISO 306
Coeff. of linear therm. expansion, parallel	65	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	IEC 60695-11-10
UL recognition	UL	-	-
Oxygen index	26	%	ISO 4589-1/-2
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	3	-	IEC 60250
Relative permittivity, 1MHz	2.9	-	IEC 60250
Dissipation factor, 100Hz	6.6	E-4	IEC 60250
Dissipation factor, 1MHz	92	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	29	kV/mm	IEC 60243-1
Comparative tracking index	225	-	IEC 60112
Other properties			
ISO Data			
Water absorption	0.35	%	Sim. to ISO 62
Density	1200	kg/m³	ISO 1183

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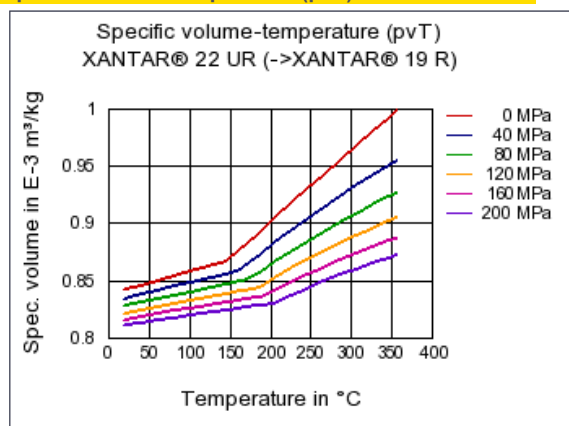
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Material specific properties	Value	Unit	Test Standard
ISO Data			
Viscosity number	55	cm³/g	ISO 307, 1157, 1628
Rheological calculation properties			
ISO Data			
Density of melt	1010	kg/m³	-
Thermal conductivity of melt	0.24	W/(m K)	-
Spec. heat capacity of melt	1710	J/(kg K)	-
Eff. thermal diffusivity	1.4E-7	m²/s	-
Ejection temperature	131	°C	-
Test specimen production			
ISO Data			
Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	90	°C	ISO 10724

Diagrams**Viscosity-shear rate****Shearstress-shear rate****Stress-strain****Secant modulus-strain**

Specific volume-temperature (pvT)



Characteristics

Processing

Injection Molding, Blow Molding

Additives

Release agent

Delivery form

Pellets

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat, Transparent

Other text information

Injection Molding

[Injection Molding Recommendations](#)

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)

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

Ethyl Acetate (23°C)



Hydrogen peroxide (23°C)



Water (23°C)



Phenol solution (5% by mass) (23°C)