

TECHNICAL DATA SHEET

Arnitel® EM460

Envalior
TPC

Processing

Injection molding, Film extrusion

Pellets

Certifications

Food contact

Delivery Form

Product Text

Product Information

Injection Molding, Film Extrusion, Food Contact Quality

ISO 18064 TPC-ET

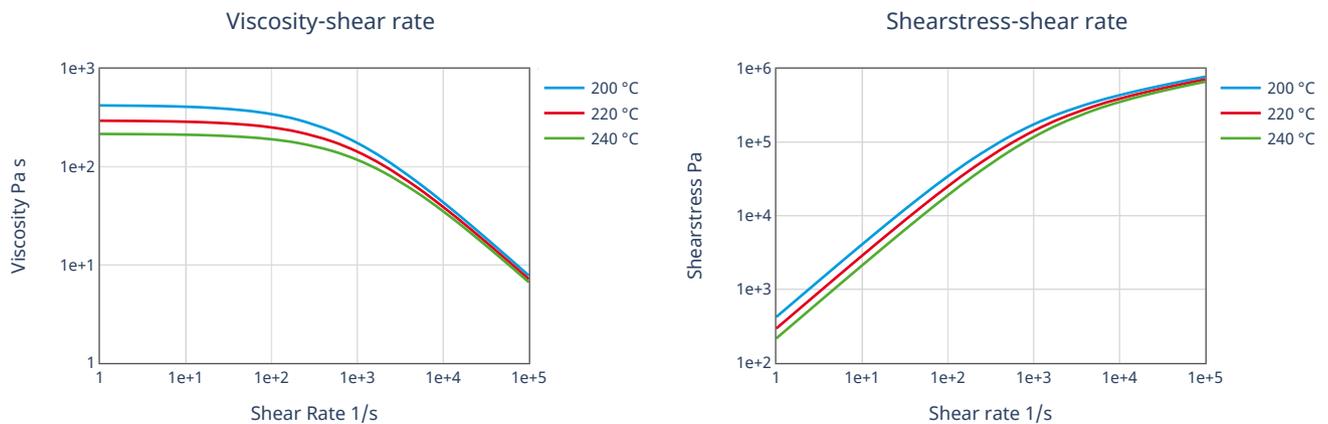
Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	46	cm ³ /10min	ISO 1133
Temperature	230	°C	
Load	2.16	kg	
Density of melt	928	kg/m ³	
Thermal conductivity of melt	0.1	W/(m K)	
Spec. heat capacity of melt	1800	J/(kg K)	
Eff. thermal diffusivity	5.99E-8	m ² /s	
Mechanical Properties	Value	Unit	Standard
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	N	kJ/m ²	ISO 179/1eA
Tensile notched impact strength, +23°C	187	kJ/m ²	ISO 8256/1
Stress at 10% elongation	7	MPa	ISO 527
Stress at 100% elongation	9.2	MPa	
Stress at 300% elongation	11.8	MPa	ISO 527
Strain at break TPE	>300	%	ISO 527
Stress at break TPE	23	MPa	ISO 527

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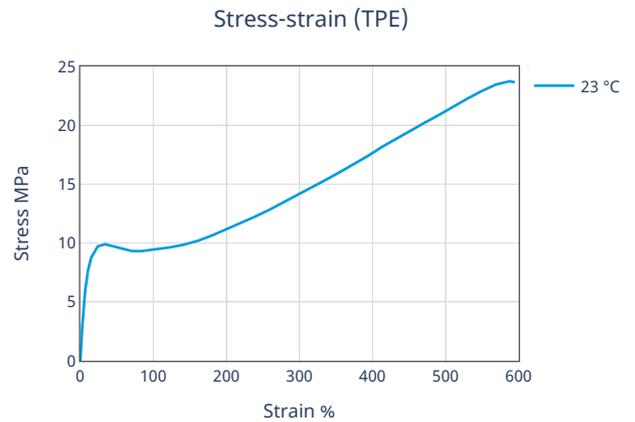
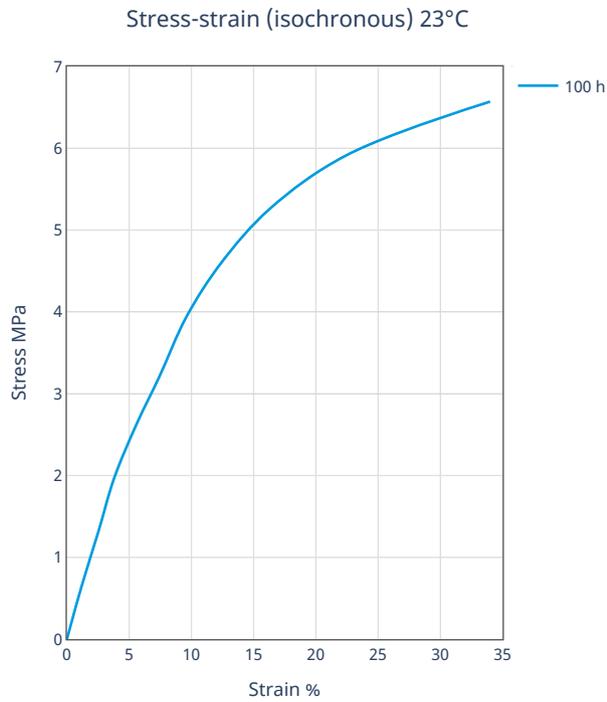
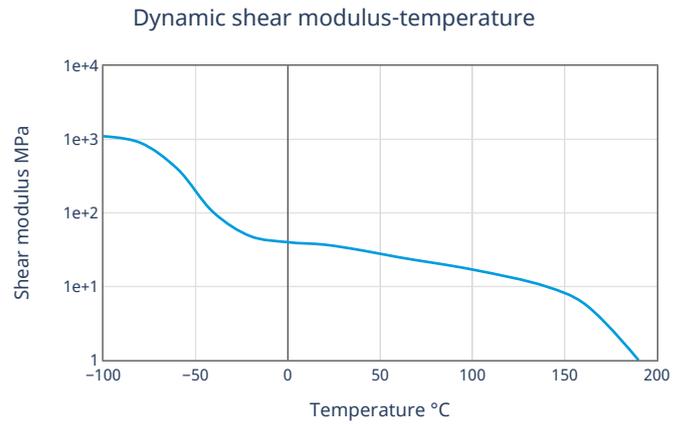
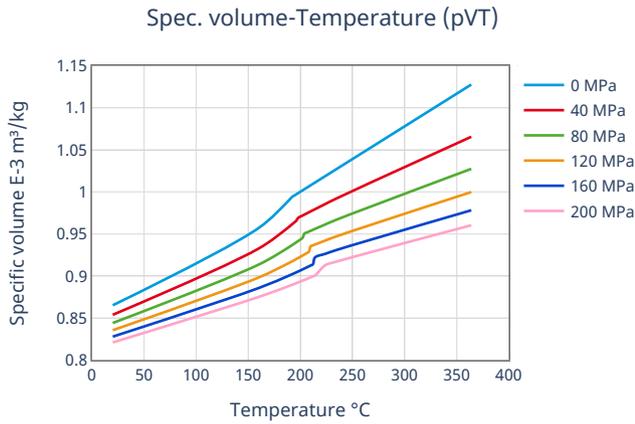
Mechanical Properties	Value	Unit	Standard
Compression set at 70 °C, 24h	50	%	ISO 815
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	189	°C	ISO 11357-1/-3
Vicat softening temperature, B	50	°C	ISO 306
Coeff. of linear therm. expansion, parallel	160	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	160	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	mm	
Yellow card available	yes		
Electrical Properties	Value	Unit	Standard
Relative permittivity, 1MHz	4.4		IEC 62631-2-1
Dissipation factor, 1MHz	350	E-4	IEC 62631-2-1
Volume resistivity	1E11	Ohm*m	IEC 62631-3-1
Electric strength	20	kV/mm	IEC 60243-1
Comparative tracking index	600		IEC 60112
Other Properties	Value	Unit	Standard
Water absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1145	kg/m ³	ISO 1183

Diagrams



Arnitel® EM460

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Processing Information

Injection molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Trouble shooting guideline for injection molding

Film extrusion

Arnitel® Recommendations for Extrusion