

TECHNICAL DATA SHEET

Arnitel® EB464

Envalior
TPC

Processing

Blow molding

Delivery Form

Pellets

Special Characteristics

Heat stabilized or stable to heat

Product Text

Product Information

Blow Molding Grade

ISO 18064 TPC-ET

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	230	°C	
Load	10	kg	
Density of melt	1010	kg/m ³	
Thermal conductivity of melt	0.193	W/(m K)	
Spec. heat capacity of melt	2220	J/(kg K)	
Eff. thermal diffusivity	8.6E-8	m ² /s	
Ejection temperature	160	°C	
Mechanical Properties	Value	Unit	Standard
Stress at 50% strain	11	MPa	ISO 527
Strain at break	>50	%	ISO 527
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
Shore D hardness	39		ISO 7619-1
Stress at 10% elongation	6	MPa	ISO 527
Stress at 100% elongation	13.9	MPa	
Stress at break TPE	21.5	MPa	ISO 527
Tear strength, parallel	95	kN/m	ISO 34-1

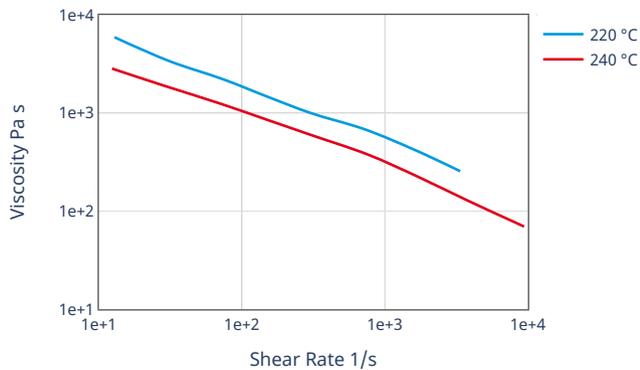
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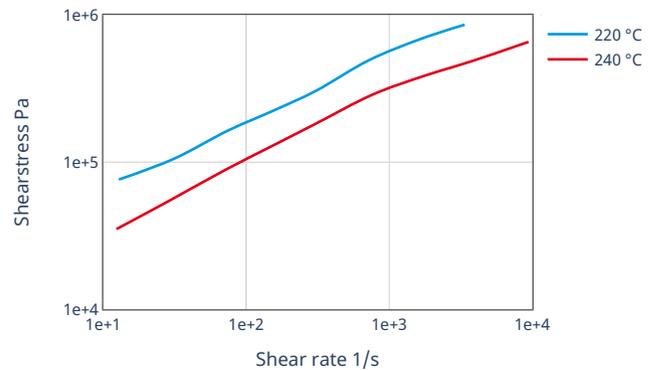
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	213	°C	ISO 11357-1/-3
Other Properties	Value	Unit	Standard
Water absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1150	kg/m ³	ISO 1183

Diagrams

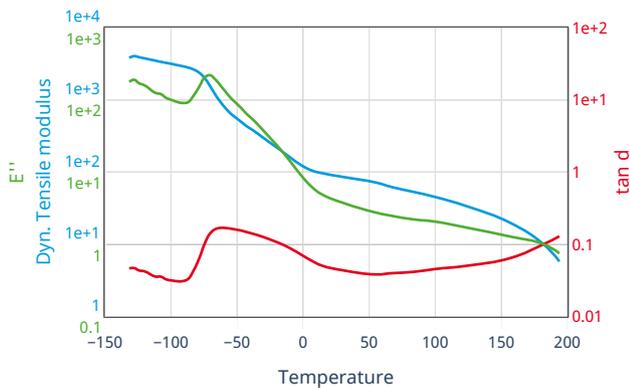
Viscosity-shear rate



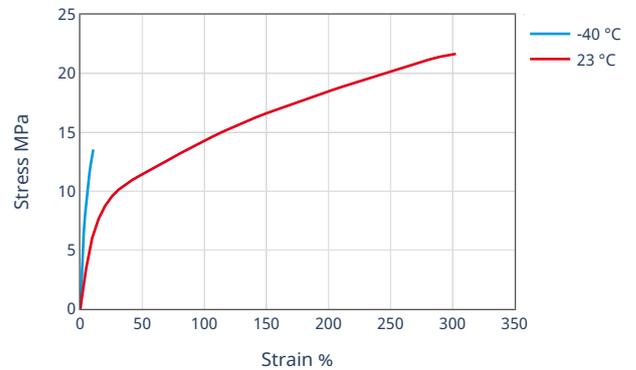
Shearstress-shear rate



Dynamic tensile modulus-temperature



Stress-strain (TPE)



Processing Information

Blow molding

Arnitel® Blow Molding Recommendations