Arnitel® EB464 - Shore 37 D

TPC DSM Engineering Plastics

Product Texts
Blow Molding Grade
ISO 18064 TPC-ET

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	8	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	67	MPa	ISO 527-1/-2
Stress at 50% strain	11	MPa	ISO 527-1/-2
Strain at break	>50	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	N	kJ/m²	ISO 179/1eA
Stress at 10% elongation	6	MPa	ISO 527-1/-2
Stress at 100% elongation	13.9	MPa	ISO 527-1/-2
Stress at break TPE	21.5	MPa	ISO 527-1/-2
Tear strength	95	kN/m	ISO 34-1
Shore D hardness, 15s	39	-	ISO 868

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	213	°C	ISO 11357-1/-3

Other properties	Value	Unit	Test Standard
ISO Data			
Water absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1150	kg/m³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	1010	kg/m³	-
Thermal conductivity of melt	0.193	W/(m K)	-
Spec. heat capacity of melt	2220	J/(kg K)	-
Eff. thermal diffusivity	8.6E-8	m²/s	-
Ejection temperature	160	°C	-

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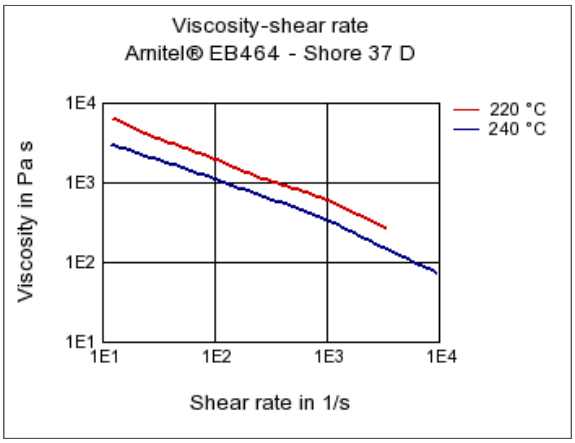
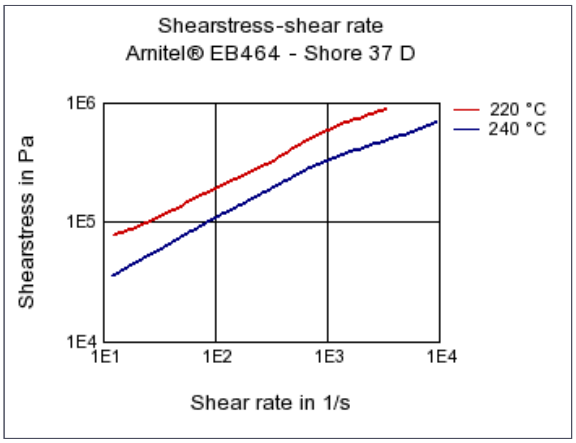
Diagrams

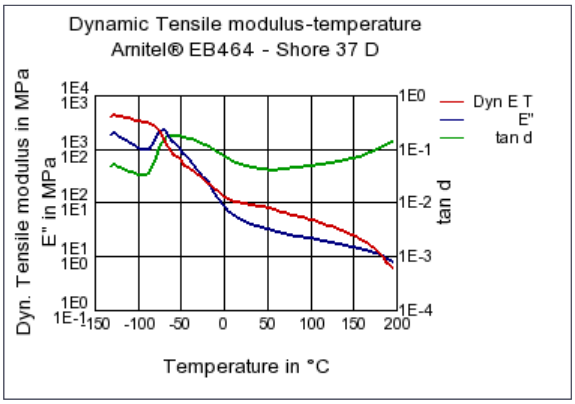
Viscosity-shear rate



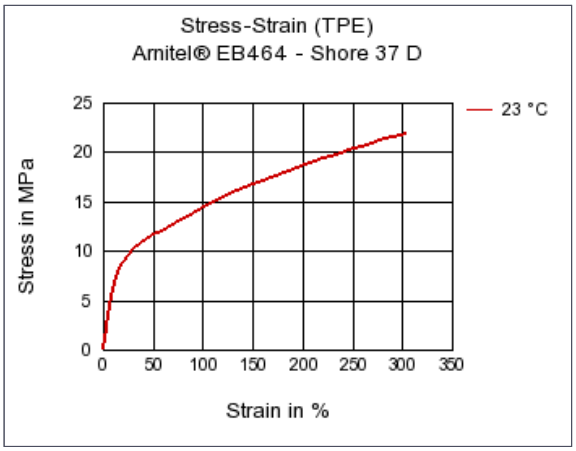
Shearstress-shear rate



Dynamic Tensile modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

Blow Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets