Arnitel® CM600-V

Envalior

TPC FR

Processing

Injection molding, Other extrusion

Delivery Form

Pellets

Special Characteristics

Flame retardant, Halogen-free

Product Text

Product Information

Extrusion, Flame Retardant (halogen free)

ISO 18064 TPC-ES FR

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	13	cm³/10min	ISO 1133
Temperature	230	°C	
Load	2.16	kg	

Mechanical Properties	Value	Unit	Standard
Charpy impact strength, +23°C	N	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	11	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m²	ISO 179/1eA
Shore D hardness	62		ISO 7619-1
Stress at 10% elongation	20	MPa	ISO 527
Stress at 100% elongation	17	MPa	
Stress at break TPE	18	MPa	ISO 527
Compression set at 70 °C, 24h	50	%	ISO 815

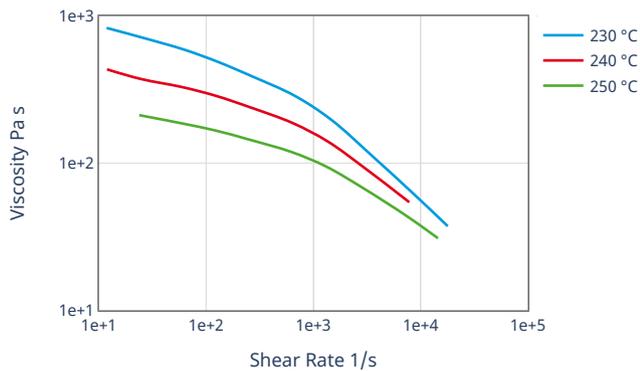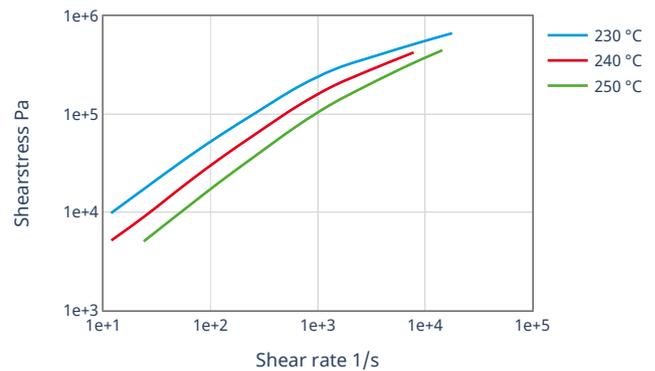| Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	205	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-10	°C	ISO 11357-1/-2
Vicat softening temperature, B	85	°C	ISO 306

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Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	4.2		IEC 62631-2-1
Relative permittivity, 1MHz	3.7		IEC 62631-2-1
Dissipation factor, 100Hz	157	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	385	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	18.7	kV/mm	IEC 60243-1
Comparative tracking index	600		IEC 60112

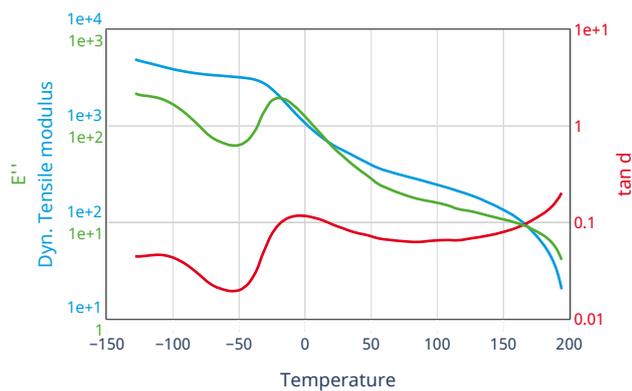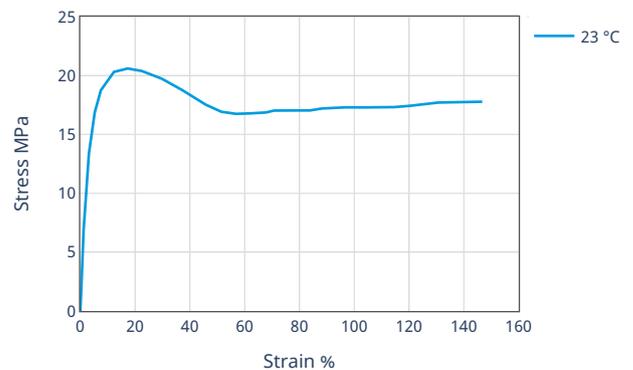| Other Properties	Value	Unit	Standard
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1320	kg/m³	ISO 1183

Diagrams

Viscosity-shear rate

Shearstress-shear rate

Dynamic tensile modulus-temperature

Stress-strain (TPE)

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Processing Information

Injection molding

Injection Molding Recommendations
Steel recommendations for molds screws and barrels
Trouble shooting guideline for injection molding

Other extrusion

Extrusion guideline Arnitel® C and Arnitel® U
Arnitel® Recommendations for Extrusion