Arnitel® EM460-08

TPC Envalior

Product Texts

Food Contact Quality, Injection Molding or Extrusion Grade

ISO 18064 TPC-ET

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**46**	cm³/10min	ISO 1133
Temperature	**230**	°C	-
Load	**2.16**	kg	-
[C] Density of melt	**928**	kg/m³	-
[C] Thermal conductivity of melt	**0.1**	W/(m K)	-
[C] Spec. heat capacity of melt	**1800**	J/(kg K)	-
[C] Eff. thermal diffusivity	**5.99E-8**	m²/s	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**N**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**N**	kJ/m²	ISO 179/1eA
[C] Stress at 10% elongation	**6.6**	MPa	ISO 527
[C] Stress at 100% elongation	**9.3**	MPa	ISO 527
[C] Stress at 300% elongation	**11.8**	MPa	ISO 527
[C] Stress at break TPE	**23**	MPa	ISO 527
[C] Strain at break TPE	**>300**	%	ISO 527
[C] Compression set at 70 °C, 24h	**50**	%	ISO 815

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**189**	°C	ISO 11357-1/-3
[C] Coeff. of linear therm. expansion, parallel	**160**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**160**	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 1MHz	**4.4**	-	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**350**	E-4	IEC 62631-2-1
[C] Volume resistivity	**1E11**	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

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

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Other Extrusion

Certifications

Food contact

Delivery form	Regional Availability
Pellets	North America, Europe, Asia Pacific

Other text information

Injection molding

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