


Arnitel® PL381-H - Shore 32 D

TPC

DSM Engineering Plastics

Product Texts

Injection Molding

ISO 18064 TPC-ET

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	32	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Mechanical properties			
ISO Data			
Tensile Modulus	60	MPa	ISO 527-1/-2
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	179	kJ/m ²	ISO 8256/1
Stress at 10% elongation	4.2	MPa	ISO 527-1/-2
Stress at 100% elongation	8.4	MPa	ISO 527-1/-2
Stress at 300% elongation	11.8	MPa	ISO 527-1/-2
Stress at break TPE	14	MPa	ISO 527-1/-2
Tear strength	40	kN/m	ISO 34-1
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	212	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion, parallel	150	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	150	E-6/K	ISO 11359-1/-2
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	4.7	-	IEC 60250
Relative permittivity, 1MHz	4.4	-	IEC 60250
Dissipation factor, 100Hz	310	E-4	IEC 60250
Dissipation factor, 1MHz	810	E-4	IEC 60250
Volume resistivity	1E12	Ohm*m	IEC 60093
Electric strength	20	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
Other properties			
ISO Data			
Water absorption	7	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62
Density	1160	kg/m ³	ISO 1183
Characteristics			
Processing		Special Characteristics	
Injection Molding		Heat stabilized or stable to heat	
Delivery form			
Pellets			

Other text information

Injection Molding

[Injection Molding Recommendations](#)