

Product Texts

- MVR (300 °C/1.2 kg) 6.0 cm³/10 min
- 10 % glass fiber reinforced
- flame retardant
- UL 94V-0/1.5 mm and 5VA/3.0 mm
- high viscosity
- easy release

Former Makrolon® TP5059

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	6	cm³/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
^[C] Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3800	MPa	ISO 527
^[C] Stress at break	45	MPa	ISO 527
^[C] Strain at break	15	%	ISO 527
Flexural modulus, 23°C	3600	MPa	ISO 178
Flexural strength	5.8	MPa	ISO 178
^[C] Charpy impact strength, +23°C	150	kJ/m²	ISO 179/1eU
^[C] Type of failure	C	-	-
Charpy impact strength, -30°C	130	kJ/m²	ISO 179/1eU
Type of failure	C	-	-
Izod notched impact strength, +23°C	10	kJ/m²	ISO 180/1A
Izod notched impact strength	6	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
^[C] Puncture - maximum force, +23°C	3900	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	3700	N	ISO 6603-2
^[C] Puncture energy, +23°C	25	J	ISO 6603-2
^[C] Puncture energy, -30°C	15	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	137	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	145	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	145	°C	ISO 306
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
^[C] Burning Behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
^[C] Burning Behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	3.0	mm	-
^[C] Oxygen index	35	%	ISO 4589-1/-2
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.75	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (3)	3	mm	-
Glow Wire Ignition Temperature (GWIT)	825	°C	IEC 60695-2-13

GWIT - thickness tested (1)	0.75	mm	-
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (2)	1.5	mm	-
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	37	kV/mm	IEC 60243-1
^[C] Comparative tracking index	175	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1270	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	110	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 3	h	-
Melt temperature	280 - 320	°C	-
Mold temperature	110	°C	-

Characteristics

Processing

Injection Molding

Additives

Release agent

Special Characteristics

Flame retardant, Opaque

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa