



Makrolon 6265

Flame retardant grades / Low viscosity

Global grade; MFR 20 g/10 min; Flame retardant; UL 94 V-0/1.5 mm; Low viscosity; Easy release; Injection molding; Available in opaque colors only

ISO Shortname

ISO 7391-PC,MFR,(,.)-18-9

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Melt flow rate	300 °C / 1.2 kg	g/(10 min)	ASTM D 1238	20
Mechanical properties (23 °C/50 % r.h.)				
Tensile modulus	1 mm/min	lb/in ²	ASTM D 638	350000
Tensile stress at yield	-	lb/in ²	ASTM D 638	9400
Tensile elongation at yield	-	%	ASTM D 638	6.0
Tensile elongation at break	-	%	ASTM D 638	95
Tensile stress at break	-	lb/in ²	ASTM D 638	8000
Izod notched impact strength	73 °F, 0.125 in	ft-lb/in	ASTM D 256	2.0
Flexural modulus	-	lb/in ²	ASTM D 790	340000
Flexural stress at 5 % strain	-	lb/in ²	ASTM D 790	12800
Rockwell hardness	-	M Scale	ASTM D 785	70
Thermal properties				
Deflection temperature under load, Unannealed	264 psi; 0.250 in	°F	ASTM D 648	261
Deflection temperature under load, Unannealed	66 psi; 0.250 in	°F	ASTM D 648	271
Vicat softening temperature	50 N, 50 °C/h	°F	ASTM D 1525	293
Coefficient of linear thermal expansion, flow/cross-flow	-	in/in/°F	ASTM D 696	3.34E-05
UL94 Flame Class	Thickness tested: 1.5 mm	Class	UL 94	V-0
UL94 Flame Class	Thickness tested: 3.0 mm	Class	UL 94	V-0
Oxygen index	-	%	ASTM D 2863	37
Thermal conductivity	-	Btu*in/(h*ft ² *°F)	ASTM C 177	1.39
Specific heat	-	Btu/(lb*°F)	ASTM D 2766	0.28
Relative temperature index, mechanical with impact	Thickness tested: 1.5 mm	°C	UL 746 B	115
Relative temperature index, mechanical without impact	Thickness tested: 1.5 mm	°C	UL 746 B	125
Relative temperature index, electrical	Thickness tested: 1.5 mm	°C	UL 746 B	125
Electrical properties (23 °C/50 % r.h.)				
Dissipation factor, Tinfoil electrodes	60 Hz	-	ASTM D 150	0.0004
Dissipation factor, Tinfoil electrodes	1 MHz	-	ASTM D 150	0.01
Volume resistivity, Tinfoil electrodes	-	Ohm·m	ASTM D 257	1.0 E+14
Surface resistivity	-	Ohm	ASTM D 257	1.0 E+16
Dielectric strength	Short time under oil at 73 °F; 0.162 in	V/mil	ASTM D 149	810
Other properties (23 °C)				
Water absorption	73 °F; immersion to saturation	%	ASTM D 570	0.30
Water absorption	73 °F; immersion 24 h	%	ASTM D 570	0.12
Density	-	lb/in ³	ASTM D 792	0.043
Specific volume	-	in ³ /lb	ASTM D 792	23.1
Specific gravity	-	-	ASTM D 792	1.2