Makrolon 1260

Impact modified grades / Low viscosity	Global grade; MFR 36 g/10 min; Impact modified; Low viscosity; Easy release; Injection molding; Available in light colors only; Housings for long-range lamps; Switch components
ISO Shortname	ISO 7391-PC,MPR,(,,)-24-9

	Property	Test Condition	Unit	Standard	Value
Rheological properties					
	Melt flow rate	300 °C / 1.2 kg	g/(10 min)	ASTM D 1238	36
	Mold shrinkage, flow/cross to flow		in/in	ASTM D 955	0.005-0.007
Mechanical properties (23 °C/50 % r.h.)					
	Tensile modulus	1 mm/min	lb/in²	ASTM D 638	330000
	Tensile stress at yield	-	lb/in²	ASTM D 638	8700
	Tensile elongation at yield	-	%	ASTM D 638	5.5
	Tensile elongation at break	-	%	ASTM D 638	100
	Tensile stress at break	-	lb/in²	ASTM D 638	7200
	Izod notched impact strength	73 °F, 0.125 in	ft·lb/in	ASTM D 256	11.5
	Flexural modulus	-	lb/in²	ASTM D 790	325000
	Flexural stress at 5 % strain		lb/in²	ASTM D 790	12500
Thermal properties					
	Deflection temperature under load, Unannealed	264 psi; 0.250 in	°F	ASTM D 648	250
	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	288
	Coefficient of linear thermal expansion, flow/cross-flow		in/in/°F	ASTM D 696	3.9E-05
	UL94 Flame Class	Thickness tested: 1.5 mm	Class	UL 94	HB
	Oxygen index		%	ASTM D 2863	30
	Thermal conductivity		Btu*in/(h*ft²*°F)	ASTM C 177	1.39
Electrical properties (23 °C/50 % r.h.)					
	Dissipation factor, Tinfoil electrodes	60 Hz	-	ASTM D 150	0.0018
	Dissipation factor, Tinfoil electrodes	1 MHz	-	ASTM D 150	0.01
	Dielectric constant, Tinfoil electrodes	60 Hz	-	ASTM D 150	3.0
	Dielectric constant, Tinfoil electrodes	1 MHz	-	ASTM D 150	3.1
	Volume resistivity, Tinfoil electrodes		Ohm·m	ASTM D 257	1.0E+14
	Surface resistivity		Ohm	ASTM D 257	1.0E+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	0.40
	Water absorption	73 °F; immersion 24 h	%	ASTM D 570	0.15
	Density		lb/in³	ASTM D 792	0.043
	Specific volume		in³/lb	ASTM D 792	23.1
	Specific gravity		-	ASTM D 792	1.20