

Makrolon® RW2405

Polycarbonate

Covestro - Polycarbonates

Message:

MVR (300 °C/1.2 kg) 19 cm³/10 min; low viscosity; easy release; variable content of filler for high reflectance application; injection molding

General Information			
Features	Good Mold Release		
	Low Viscosity		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.24 to 1.34	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	19.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500 to 2700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield, 23°C	60.0	MPa	
Break, 23°C	50.0 to 60.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	5.5	%	
Break, 23°C	80 to 110	%	
Nominal Tensile Strain at Break (23°C)	> 50	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength ¹ (23°C, Complete Break)	15	kJ/m ²	ISO 7391
Multi-Axial Instrumented Impact Energy (23°C)	43.0 to 50.0	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force (23°C)	4800 to 5100	N	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	144	°C	ISO 306/B50
RTI Elec (1.50 mm)	125	°C	UL 746
RTI Imp (1.50 mm)	115	°C	UL 746
RTI Str (1.50 mm)	125	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
2.70 mm, WT	HB		

3.00 mm, WT	HB	
0.750 mm, WT	V-2	
1.50 mm, WT	V-2	
Optical	Nominal Value	Test Method
Light Reflection (4.00 mm)	96.0 to 97.0	JIS 8722
NOTE		
1.	Based on ISO 180-A	

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