

Vikalloy IM90

Acrylic (PMMA) + PVC

Viking Polymers, LLC

Message:

Vikalloy IM90 is an acrylic acid (PMMA) PVC (PMMA PVC) material. This product is available in North America, Europe or Asia Pacific region. The processing method is injection molding.

The main features of the Vikalloy IM90 are:

- chemical resistance
- Flame Retardant

General Information			
Features	Solvent resistance		
	Cleanable		
	Good chemical resistance		
	Flame retardancy		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 - 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (3.18 mm)	53.5	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	98	%	ASTM D638
Flexural Modulus (3.18 mm)	3100	MPa	ASTM D790
Flexural Strength (3.18 mm)	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	71.1	°C	ASTM D648
Additional Information			
Specific Gravity, ASTM D792: 1.46 - 1.49			
Injection	Nominal Value	Unit	
Drying Temperature	54.4	°C	
Drying Time	4.0	hr	
Middle Temperature	157 - 196	°C	
Front Temperature	157 - 196	°C	
Processing (Melt) Temp	196 - 207	°C	
Mold Temperature	32.2 - 60.0	°C	
Back Pressure	0.689 - 2.76	MPa	

Injection instructions

Drying is typically not necessary, however if the material is old or has been stored in moist conditions follow drying parameters listed.

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