

PRL AC-GP3

Acetal (POM) Copolymer
Polymer Resources Ltd.

Message:

PRL AC-GP3 is an Acetal (POM) Copolymer product. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
RoHS Compliant
Copolymer
High Flow

General Information			
Features	Copolymer		
	High Flow		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	22 to 32	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8 to 2.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	61.4	MPa	
Break, 3.18 mm	61.4	MPa	
Flexural Modulus (3.18 mm)	2600	MPa	ASTM D790
Flexural Strength (3.18 mm)	90.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Gardner Impact (3.18 mm)	22.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	157	°C	
1.8 MPa, Unannealed, 3.18 mm	110	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm	HB		
3.18 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	79.4 to 85.0	°C	

Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	168 to 174	°C
Middle Temperature	179 to 185	°C
Front Temperature	185 to 191	°C
Processing (Melt) Temp	182 to 199	°C
Mold Temperature	76.7 to 93.3	°C

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