

PRL AH-GP3

Acetal (POM) Homopolymer

Polymer Resources Ltd.

Message:

PRL AH-GP3 is an Acetal (POM) Homopolymer product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Heat Stabilizer
- High Flow
- Homopolymer

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Flow		
	Homopolymer		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	24 to 26	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	67.6	MPa	
Break, 3.18 mm	67.6	MPa	
Flexural Modulus (3.18 mm)	2830	MPa	ASTM D790
Flexural Strength (3.18 mm)	94.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	64	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	166	°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	76.7 to 82.2	°C
Drying Time	2.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	193 to 204	°C
Middle Temperature	196 to 207	°C
Front Temperature	199 to 210	°C
Processing (Melt) Temp	199 to 210	°C
Mold Temperature	79.4 to 98.9	°C

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