

Jamplast JPAH

Acetal (POM) Homopolymer

Jamplast, Inc.

Message:

Jamplast JPAH is an Acetal (POM) Homopolymer material. It is available in North America for cast film, extrusion, injection molding, profile extrusion, or sheet extrusion.

Important attributes of Jamplast JPAH are:

- Flame Rated
- High Viscosity
- Lubricated
- Wear Resistant

Typical applications include:

- Engineering/Industrial Parts
- Film
- Hose/Tubing
- Sheet
- Wire & Cable

General Information			
Additive	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	High Viscosity		
	Low Friction		
	Lubricated		
Uses	Bushings		
	Cast Film		
	Engineering Parts		
	Sheet		
	Tubing		
	Wire & Cable Applications		
Appearance	Brown		
Forms	Pellets		
Processing Method	Cast Film		
	Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Water Absorption	ASTM D570		
	23°C, 24 hr	0.20	%

Saturation, 23°C	0.72	%	
Equilibrium, 23°C, 50% RH	0.18	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	2910	MPa	ASTM D638
Tensile Strength ² (23°C)	50.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C)	11	%	ASTM D638
Flexural Modulus (23°C)	2710	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	31	J/m	ASTM D256
Unnotched Izod Impact (23°C)	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	163	°C	
1.8 MPa, Unannealed	95.0	°C	
Melting Temperature	178	°C	DSC
CLTE			ASTM E831
Flow : 23 to 54°C	1.0E-4	cm/cm/°C	
Transverse : 23 to 54°C	1.0E-4	cm/cm/°C	
RTI Elec			UL 746
1.50 mm	105	°C	
3.00 mm	105	°C	
RTI Imp			UL 746
1.50 mm	85.0	°C	
3.00 mm	85.0	°C	
RTI Str			UL 746
1.50 mm	90.0	°C	
3.00 mm	90.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	210 to 220	°C	
Mold Temperature	80.0 to 100	°C	
NOTE			
1.	5.1 mm/min		
2.	5.1 mm/min		
3.	5.1 mm/min		

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