

## PTS POM-270 27.0 MFI Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

**Material Notes:**

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PTS-POM-270-270-MFI-Acetal-Copolymer.php](http://www.lookpolymers.com/polymer_PTS-POM-270-270-MFI-Acetal-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.22 %	0.22 %	ASTM D570
Melt Flow	27 g/10 min	27 g/10 min	
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength, Yield	59.3 MPa	8600 psi	ASTM D638
Elongation at Break	38 %	38 %	ASTM D638
Flexural Yield Strength	85.5 MPa	12400 psi	ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	160 - 180 °C	320 - 356 °F	
Middle Barrel Temperature	180 - 200 °C	356 - 392 °F	
Front Barrel Temperature	190 - 215 °C	374 - 419 °F	
Nozzle Temperature	190 - 215 °C	374 - 419 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Drying Temperature	90.0 - 110 °C	194 - 230 °F	
Dry Time	3 - 6 hour	3 - 6 hour	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

Descriptive Properties	Value	Comments
Processing Purging Material	Polyethylene/Polystyrene	

## Contact Songhan Plastic Technology Co.,Ltd.

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