

## PolyOne Edgetek® XP9242701 Polyphenylene Sulfide (PPS)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

Injection Speed: 50 to 80% Holding Time: 3 to 9 sec Injection Time: 1 to 3 sec Cycle Time: 18 to 70 sec Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-XP9242701-Polyphenylene-Sulfide-PPS.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-XP9242701-Polyphenylene-Sulfide-PPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	258 MPa	37400 psi	ASTM D638
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Charpy Impact, Notched	60.0 J/cm <sup>2</sup>	286 ft-lb/in <sup>2</sup>	J/m; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	265 °C	509 °F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+9 ohm	<= 1.00e+9 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 280 °C	518 - 536 °F	
Middle Barrel Temperature	290 - 330 °C	554 - 626 °F	
Front Barrel Temperature	290 - 330 °C	554 - 626 °F	
Nozzle Temperature	280 - 320 °C	536 - 608 °F	
Mold Temperature	120 - 150 °C	248 - 302 °F	
Drying Temperature	130 - 150 °C	266 - 302 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

<small>Injection Pressure</small> Processing Properties	70.0 - 100 MPa Metric	10200 - 14500 psi English	Comments
Hold Pressure	50.0 - 80.0 MPa	7250 - 11600 psi	
Back Pressure	1.00 - 2.50 MPa	145 - 363 psi	
Screw Speed	80 - 120 rpm	80 - 120 rpm	

Descriptive Properties	Value	Comments
Filler / Reinforcement	Carbon Fiber Reinforcement, 10% Filler by Weight Glass Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	PPS	
Generic Name	Polyphenylene Sulfide (PPS)	
Processing Method	Injection Molding	
Regional Availability	Asia Pacific	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China