

# Edgetek™ XP9242701

Polyphenylene Sulfide

PolyOne Corporation

Message:

Edgetek™XP9242701 is a polyphenylene sulfide (PPS) product, which contains fillers of 30% glass fiber reinforced materials and 10% carbon fiber reinforced materials. It can be processed by injection molding and is available in the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
	Carbon fiber reinforced material, 10% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	258	MPa	ASTM D638
Flexural Modulus	18000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	60.0	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	265	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+9	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, ALL)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	130 - 150	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	270 - 280	°C	
Middle Temperature	290 - 330	°C	
Front Temperature	290 - 330	°C	
Nozzle Temperature	280 - 320	°C	
Mold Temperature	120 - 150	°C	
Injection Pressure	70.0 - 100	MPa	
Holding Pressure	50.0 - 80.0	MPa	
Back Pressure	1.00 - 2.50	MPa	
Screw Speed	80 - 120	rpm	

#### Injection instructions

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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

