

Thermec™ 4160R40

Polyphenylene Sulfide
Technical Polymers, LLC

Message:

Thermec™4160R40 is a polyphenylene sulfide (PPS) material, which contains a 40% glass fiber reinforced material. This product is available in North America and is processed by injection molding. Thermec™The main characteristics of 4160R40 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	165	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.8	%	ASTM D638
Flexural Modulus (23°C)	12400	MPa	ASTM D790
Flexural Strength (23°C)	248	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	270	°C	ASTM D648
Melting Temperature	280	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			
Volum Resistivity, ASTM D257: > 1e13 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature	135 - 149	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	316 - 343	°C	
Mold Temperature	135 - 149	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.103 - 0.689	MPa	
Screw Speed	100	rpm	
Clamp Tonnage	3.4 - 5.5	kN/cm ²	
Cushion	6.35 - 12.7	mm	
Screw L/D Ratio	20.0:1.0		

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

