

Thermec™ 4140R40

Polyphenylene Sulfide
Technical Polymers, LLC

Message:

Thermec™4140R40 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 features of 4140R40 are:

- flame retardant/rated flame
- high liquidity

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	High liquidity		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	17.9	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0	%	ASTM D638
Flexural Modulus (23°C)	13400	MPa	ASTM D790
Flexural Strength (23°C)	276	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	96	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	
Screw Compression Ratio	2.5:1.0	

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