




Material Datasheet 15

Trade Name : PPS GP50 BK - Black	
Material : Polyphenylene Sulfide (PPS)	
Color : Black	

Properties	Test Method	Test Condition	Unit	Typical Value
Physical				
Specific Gravity	ASTM D792		g/cm ³	1.768
Fiber Content/Ash			%	55
Rheological				
Melt Flow Index	ASTM D1238	250°C - 2.16kg	g/10min	4.9
Mechanical				
Tensile Strength	ASTM D638	82.3 81.4 81.3	MPa	81.6
Elongation at Break	ASTM D638	2.8 2.4 2.7	%	2.6
Flexural Strength	ASTM D790		MPa	133.6
Flexural Modulus	ASTM D790		MPa	8920.221
Izod Impact Strength	ASTM D256	<u>10.16mm*3.2mm 23°C</u> 80.1 79.8 81.3 80.1	J/m	80.2
Thermal				
Heat Distortion Temp.	ASTM D648	1.8mpa/deform 0.341	°C	138
Flammability				
Flammability	UL 94	127*12.8*2.0mm 127*12.8*3.0mm		HB HB

The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. For further information, please contact or fax to AMK Technical Services Department.