

Kinta R4-001 BK

Polyphenylene Sulfide

Kinta Technology (Hong Kong) Co., Ltd.

Message:

Kinta R4-001 BK is a polyphenylene sulfide (PPS) product. It is available in the Asia-Pacific region.

Features include:

flame retardant/rated flame

Flame Retardant

General Information			
Additive	Flame retardancy		
Features	Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.72	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (315°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	120	MPa	ASTM D638
Tensile Elongation ² (Break)	6.0	%	ASTM D638
Flexural Modulus ³	12400	MPa	ASTM D790
Flexural Strength ⁴	210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	5.50	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	260	°C	ASTM D648
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	12	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 150	°C	
Drying Time	1.0	hr	
Rear Temperature	275 - 280	°C	
Middle Temperature	285 - 295	°C	
Front Temperature	275 - 285	°C	
Nozzle Temperature	280 - 290	°C	

Processing (Melt) Temp	270 - 290	°C
Mold Temperature	100 - 120	°C
Injection Pressure	100 - 130	MPa

NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	5.0 mm/min	
4.	5.0 mm/min	

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