

Integra™ POK 9030 GA6

Polyketone
PolySource, LLC

Message:
Aliphatic Polyketone, Medium viscosity grade for injection molding, 30% Glass fiber reinforced

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	aliphatic		
	Medium viscosity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 - 0.80	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50%RH)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	128	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 4.0	%	ASTM D638
Flexural Modulus (23°C)	6850	MPa	ASTM D790
Flexural Strength (23°C)	141	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	205	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms · cm	ASTM D257
Dielectric Strength	500	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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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

