

Aplax P1412GN

Polypropylene
Ginar Technology Co., LTD.

Message:
Aplax P1412GN is a 20% Mica Filled PP product for extrusion and injection moulding in natural colour

General Information	
Filler / Reinforcement	Mica filler, 20% filler by weight
Features	Highlight
	Solvent resistance
	Good electrical performance
	Good chemical resistance
	Good wear resistance
	Good weather resistance
	Fuel resistance
	Heat resistance, high
	Oil resistance
Appearance	Natural color
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Molding Shrinkage - Flow (1.60 mm)	0.90 - 1.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	41.0	MPa	ISO 527-2
Tensile Strain (Break)	25	%	ISO 527-2
Flexural Modulus	3380	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	140	°C	ASTM D648
1.8 MPa, not annealed	125	°C	ASTM D648, ISO 75-2/A
Melting Temperature	> 165	°C	DSC
CLTE - Flow	1.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method

Flame Rating (3.20 mm)	HB	UL 94
Additional Information		
Notched Izod Impact Strength, ISO 180/1, notch 0.25in: 53 kg cm/cm		
Injection	Nominal Value	Unit
Rear Temperature	170 - 220	°C
Middle Temperature	170 - 220	°C
Front Temperature	170 - 220	°C
Nozzle Temperature	210 - 220	°C
Processing (Melt) Temp	180 - 220	°C
Injection Pressure	50.0 - 120	MPa
Holding Pressure	30.0 - 80.0	MPa
Back Pressure	0.00 - 0.300	MPa
Screw Speed	60 - 120	rpm

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Recommended distributors for this material

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