Witcom PA6 2004/39

Polyamide 6

Witcom Engineering Plastics B.V.

Message:

Witcom PA6 2004/39 is a polyamide 6 (nylon 6) product that contains a filler. It can be processed by injection molding and is available in Europe.
Features include:
flame retardant/rated flame
Conductivity

General Information			
Filler / Reinforcement	Filler		
Features	Conductivity		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.31	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.20 - 0.40	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	6.0	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2
-40°C	7600	MPa	ISO 527-2
23°C	7000	MPa	ISO 527-2
80°C	3600	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture, -40°C	155	MPa	ISO 527-2
Fracture, 23°C	110	MPa	ISO 527-2
Fracture, 80°C	65.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Fracture, -40°C	1.0 - 3.0	%	ISO 527-2
Fracture, 23°C	2.0 - 4.0	%	ISO 527-2
Fracture, 80°C	5.0 - 7.0	%	ISO 527-2
Flexural Modulus (23°C)	6200	MPa	ISO 178
Flexural Stress (23°C)	155	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ISO 180/1A
-40°C	8.0	kJ/m²	ISO 180/1A
23°C	11	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-40°C	50	kJ/m²	ISO 180/1U
23°C	60	kJ/m²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	195	°C	ISO 75-2/A
CLTE - Flow	3.7E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	95.0	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+4 - 1.0E+6	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.00 mm)	HB		ISO 1210
Glow Wire Flammability Index (1.60 mm)	750	°C	IEC 60695-2-12
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	0.10	%	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	40.0 - 80.0	°C	
Injection Rate	Fast		
Back Pressure	0.00 - 1.00	MPa	

Injection instructions

Screw speed: 0.1 - 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

Recommended distributors for this material

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