

Sunny® PA6 EN400

Polyamide 6

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

EP Super-tough Polyamide 6

General Information			
Features	Ultra High Toughness		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.49	g/cm ³	ASTM D792
23°C	1.01	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 23°C	0.20 to 0.40	%	ASTM D955
23°C	1.5 to 2.0	%	ISO 294-4
Water Absorption			
Equilibrium, 23°C	1.0	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
-- ²	120	MPa	ASTM D638
--	40.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	3.8	%	ASTM D638
Break	400	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	7270	MPa	ASTM D790
50.0 mm Span	700	MPa	ISO 178
Flexural Strength			
50.0 mm Span	174	MPa	ASTM D790
-- ⁴	40.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	690	J/m	ASTM D256
23°C	64	kJ/m ²	ISO 180/1A
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
1.60 mm	HB		

3.20 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	105 to 110	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	250	°C
Middle Temperature	240	°C
Front Temperature	240	°C
Processing (Melt) Temp	250	°C
Mold Temperature	80.0	°C
Injection Rate	Moderate-Fast	
NOTE		
1.	23°C	
2.	5.0 mm/min	
3.	5.0 mm/min	
4.	50 mm span	

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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



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