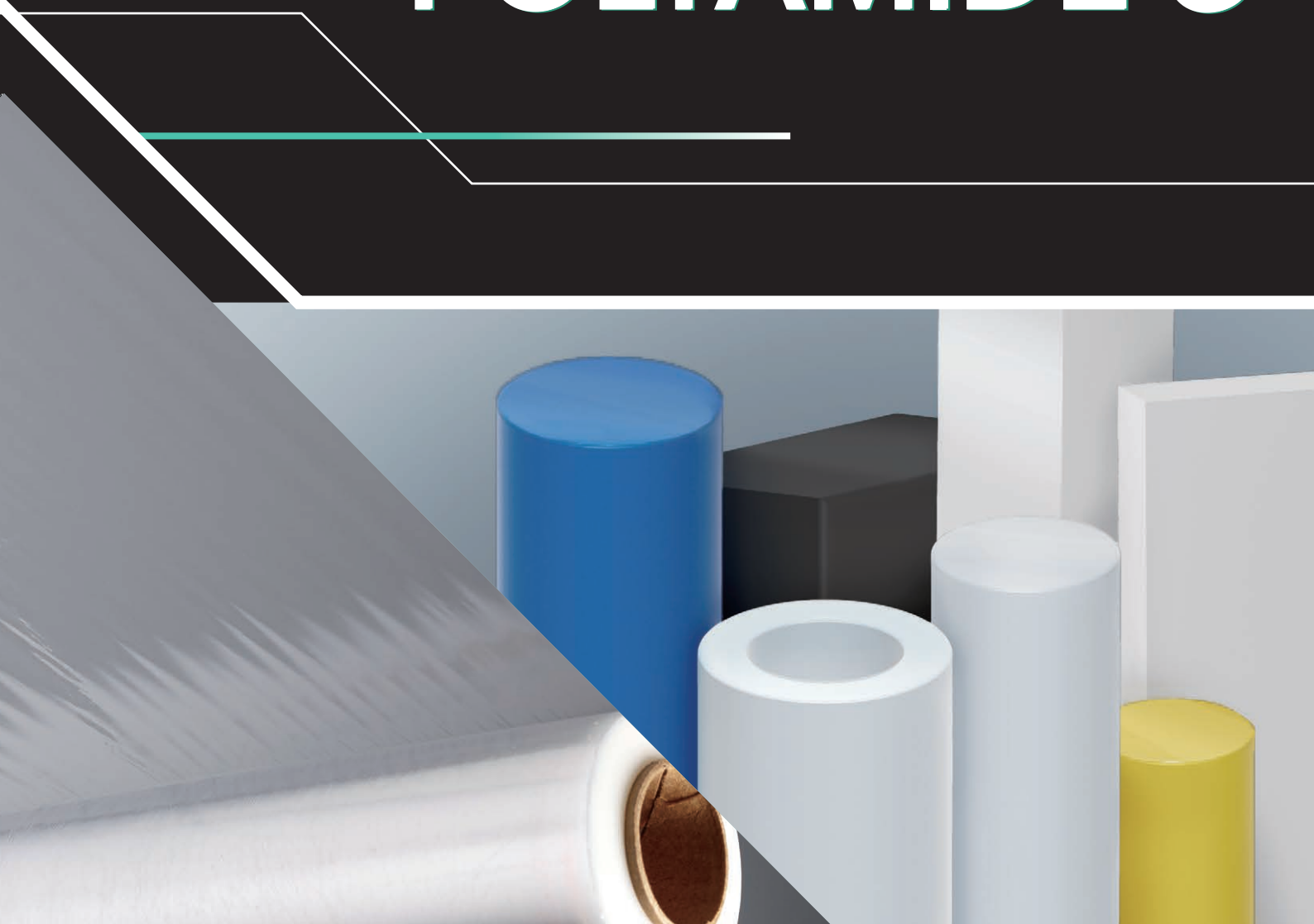


SUNYLON®

POLYAMIDE 6



FCFC For Customer For Care



台湾化學纖維股份有限公司
FORMOSA CHEMICALS & FIBRE CORPORATION

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SUNYLON® POLYAMIDE 6

項 目 Property	單 位 Unit	試驗方法 Test Method	試 驗 條 件 Test Condition	SUNYLON® POLYAMIDE 6							
				低黏度 Low Viscosity			中黏度 Middle Viscosity	高黏度 High Viscosity			
				NP2400	NP2700	NP2800	NP3300	NP3800	NP4000		
相對黏度 Relative Viscosity	-	96% H ₂ SO ₄	25°C	2.5	2.7	2.8	3.3	3.8	4.0		
可萃取份 Extractable	%	-	-	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
含水量 Moisture content	ppm	Karl Fischer	-	<1000	<1000	<1000	<1000	<1000	<1000		
熔點 Melting point	°C	DSC	-	220	220	220	220	220	220		
抗張強度 Tensile Strength	kg/cm²	ASTM D-638	23°C	700	710	710	720	730	730		
彎曲強度 Flexural Strength	kg/cm²	ASTM D-790	23°C	1050	1030	1020	1050	1050	1050		
彎曲模數 Flexural Modulus	kg/cm²	ASTM D-790	23°C	23500	23700	23500	24000	24000	24000		
洛氏硬度 Rockwell Hardness	R-scale	ASTM D-785	23°C	117	117	117	117	117	117		
IZOD 衝擊強度 Izod Impact Strength	kg-cm/cm	ASTM D-256	1/8" bar / 23 °C	6.0	6.0	6.0	6.5	6.5	6.5		
熱變形溫度 Heat Deflection Temperature	°C	ASTM D-648	Unannealed 18.6 kg/cm² (1/4" bar)	60	60	60	60	60	60		
密度 Density	g/cm³	ISO 1183	23°C /23°C	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14		
收縮率 Molding shrinkage	%	ASTM D-955	23°C /23°C	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8		
阻燃 Flammability Rating	mm	UL-94	HB	1.0	1.0	1.0	1.0/3.0	-	1.0/3.0		
			UL V2 (Internal Test)	3.0	3.0	3.0	-	-	-		
特性 Speciality				注塑成型、低黏度、良好的機械性能、耐油性、耐衝擊性 Injection Molding, Low viscosity, Good mechanical properties, Oil resistance, Impact resistance.			擠出、中黏度、良好的機械性能、耐油性、耐衝擊性 Extrusion, Middle Viscosity, Good mechanical properties, Oil resistance, Impact resistance.		擠出、高黏度、良好的機械性能、耐油性、耐衝擊性 Extrusion, High Viscosity, Good mechanical properties, Oil resistance, Impact resistance.		
用途 Application				射出、束帶、小零件、母粒等 Injection, Drawstring, Small parts, Masterbatch, etc.		射出、束帶、改性 Compound 加 GF 等 Injection, Drawstring, Modification, Compounding with GF, etc.		BOPA、單絲線材 (釣魚線、車縫線)、Compound 加 GF 等 BOPA, Monofilament wire (fishing line, Sewing thread), Compounding with GF, etc.		CPA 流延膜、IPA 吹塑膜、除草機線、單絲線材、薄膜、板材、棒材、波紋管、高壓管等 CPA film, IPA film, Weeder line, Monofilament wire, Film, Plate, Round rod, Wave tube, High pressure pipe, etc.	

絕乾條件：烘料 80~ 90 °C x 8 小時或真空包裝拆包直接射出， 射出後試片放入乾燥皿 24 小時後測試物性。
Absolutely dry conditions: Bake the material at 80 ~ 90 °C × 8hr or unpack it directly and inject it.
After injection,the test piece is placed in a drying dish for 24 hours to test the physical properties.

以上數值係參考 ASTM,ISO 方法所測得，僅供選擇用途品級之參考。
All tests were run under laboratory conditions ASTM, ISO testing procedures.
The data are intended as a general guide only.



SUNYLON® POLYAMIDE 6

項 目 Property	單 位 Unit	試驗方法 Test Method	試 驗 條 件 Test Condition	SUNYLON® POLYAMIDE 6						
				低黏度 Low Viscosity				中黏度 Middle Viscosity	高黏度 High Viscosity	
				RP2200	RP2400	RP2700	RP2800	RP3300	RP3800	RP4000
相對黏度 Relative Viscosity	-	96% H ₂ SO ₄	25°C	2.2	2.5	2.7	2.8	3.3	3.8	4.0
可萃取份 Extractable	%	-	-	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
含水量 Moisture content	ppm	Karl Fischer	-	<1000	<1000	<1000	<1000	<1000	<1000	<1000
熔點 Melting point	°C	DSC	-	220	220	220	220	220	220	220
抗張強度 Tensile Strength	kg/cm ²	ASTM D-638	23°C	640	680	700	700	700	710	710
彎曲強度 Flexural Strength	kg/cm ²	ASTM D-790	23°C	950	980	1000	1000	1000	1020	1020
彎曲模數 Flexural Modulus	kg/cm ²	ASTM D-790	23°C	22500	22500	23000	23000	23000	23500	23500
洛氏硬度 Rockwell Hardness	R-scale	ASTM D-785	23°C	116	117	117	117	117	117	117
IZOD 衝擊強度 Izod Impact Strength	kg-cm/cm	ASTM D-256	1/8" bar / 23 °C	4.0	5.0	5.0	5.0	5.5	5.5	5.5
熱變形溫度 Heat Deflection Temperature	°C	ASTM D-648	Unannealed 18.6 kg/cm ² (1/4" bar)	60	60	60	60	60	60	60
密度 Density	g/cm ³	ISO 1183	23°C /23°C	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14
收縮率 Molding shrinkage	%	ASTM D-955	23°C /23°C	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8
特性 Speciality				注塑成型、低黏度、良好的機械性能、耐油性、耐衝擊性 Injection Molding, Low viscosity, Good mechanical properties, Oil resistance, Impact resistance.				擠出、中黏度、良好的機械性能、耐油性、耐衝擊性 Extrusion, Middle Viscosity, Good mechanical properties, Oil resistance, Impact resistance.	擠出、高黏度、良好的機械性能、耐油性、耐衝擊性 Extrusion, High Viscosity, Good mechanical properties, Oil resistance, Impact resistance.	
用途 Application				射出、小零件、母粒等 Injection, Small parts, Masterbatch, etc.		射出、束帶、Compound 加 GF 等 Injection, Drawstring, Compounding with GF, etc.		BOPA、單絲線材 (釣魚線、車縫線)、Compound 加 GF 等 BOPA, Monofilament wire (fishing line, Sewing thread), Compounding with GF, etc.	CPA 流延膜、IPA 吹塑膜、除草機線、單絲線材、薄膜、板材、棒材、波紋管、高壓管等 CPA film, IPA film, Weeder line, Monofilament wire, Film, Plate, Round rod, Wave tube, High pressure pipe, etc.	

絕乾條件：烘料 80~ 90 °C x 8 小時或真空包裝拆包直接射出， 射出後試片放入乾燥皿 24 小時後測試物性。
Absolutely dry conditions: Bake the material at 80 ~ 90 °C × 8hr or unpack it directly and inject it.
After injection,the test piece is placed in a drying dish for 24 hours to test the physical properties.

以上數值係參考 ASTM,ISO 方法所測得，僅供選擇用途品級之參考。
All tests were run under laboratory conditions ASTM, ISO testing procedures.
The data are intended as a general guide only.



SUNYLON® POLYAMIDE 6

項 目 Property	單 位 Unit	試驗方法 Test Method	試 驗 條 件 Test Condition	SUNYLON® POLYAMIDE 6						
				Engineering Plastic & Film						
				低黏度 Low Viscosity				中黏度 Middle Viscosity		
				NP24N3	NP27N3	NP27NA	NP27NW	NP33LA	NP33T4	NP33M4
相對黏度 Relative Viscosity	-	96% H ₂ SO ₄	25°C	2.5	2.7	2.7	2.8	3.3	3.3	3.3
可萃取份 Extractable	%	-	-	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
含水量 Moisture content	ppm	Karl Fischer	-	<1000	<1000	<1000	<1000	<1000	<1000	<1000
熔點 Melting point	°C	DSC	-	220	220	220	220	220	220	220
抗張強度 Tensile Strength	kg/cm²	ASTM D-638	23°C	720	730	740	700	700	710	710
彎曲強度 Flexural Strength	kg/cm²	ASTM D-790	23°C	1050	1050	1060	1070	1080	1040	1030
彎曲模數 Flexural Modulus	kg/cm²	ASTM D-790	23°C	25000	24000	24200	24300	24500	24500	24100
洛氏硬度 Rockwell Hardness	R-scale	ASTM D-785	23°C	117	117	117	117	117	117	117
IZOD 衝擊強度 Izod Impact Strength	kg-cm/cm	ASTM D-256	1/8" bar / 23 °C	4.5	5.0	5.0	5.5	6.0	6.0	6.0
熱變形溫度 Heat Deflection Temperature	°C	ASTM D-648	Unannealed 18.6 kg/cm² (1/4" bar)	65	64	65	65	60	62	62
密度 Density	g/cm³	ISO 1183	23°C /23°C	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14
收縮率 Molding shrinkage	%	ASTM D-955	23°C /23°C	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8
特性 Speciality				注塑成型、低黏度、良好的機械性能、耐油性、耐衝擊性 Injection Molding, Low viscosity, Good mechanical properties, Oil resistance, Impact resistance.				擠出、中黏度、良好的機械性能、耐油性、耐衝擊性 Extrusion, Middle Viscosity, Good mechanical properties, Oil resistance, Impact resistance.		
用途 Application				射出小零件等 Injection small parts, etc.		束帶 Drawstring		單絲線材 (釣魚線) Monofilament wire (fishing line)		空壓管 Air pressure pipe

絕乾條件：烘料 80~ 90 °C x 8 小時或真空包裝拆包直接射出， 射出後試片放入乾燥皿 24 小時後測試物性。
Absolutely dry conditions: Bake the material at 80 ~ 90 °C × 8hr or unpack it directly and inject it.
After injection,the test piece is placed in a drying dish for 24 hours to test the physical properties.

以上數值係參考 ASTM,ISO 方法所測得，僅供選擇用途品級之參考。
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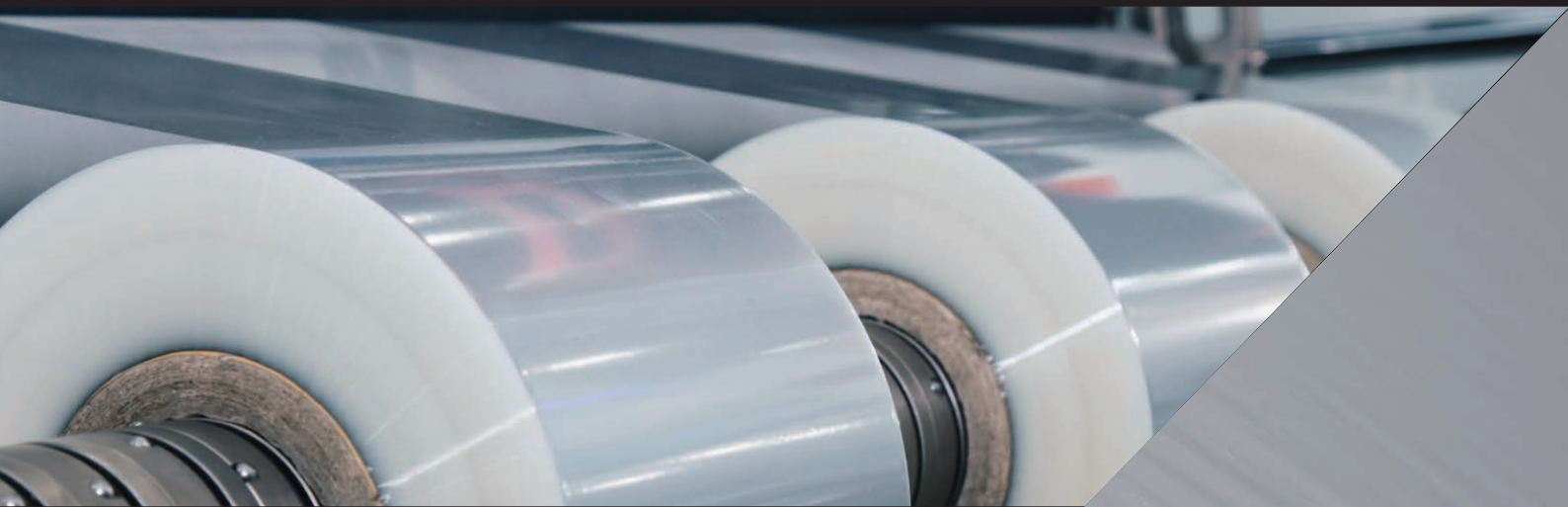
SUNYLON® POLYAMIDE 6

項 目 Property	單 位 Unit	試驗方法 Test Method	試 驗 條 件 Test Condition	SUNYLON® POLYAMIDE 6					
				Engineering Plastic & Film					
				高黏度 High Viscosity					
				NP38M4	NP38MN	NP40D4	NP40L3	NP40LA	NP40N3
相對黏度 Relative Viscosity	-	96% H ₂ SO ₄	25°C	3.8	3.8	4.0	4.0	4.0	4.0
可萃取份 Extractable	%	-	-	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
含水量 Moisture content	ppm	Karl Fischer	-	<1000	<1000	<1000	<1000	<1000	<1000
熔點 Melting point	°C	DSC	-	220	220	220	220	220	220
抗張強度 Tensile Strength	kg/cm ²	ASTM D-638	23°C	700	720	710	700	710	720
彎曲強度 Flexural Strength	kg/cm ²	ASTM D-790	23°C	1040	1020	1060	1000	1020	1040
彎曲模數 Flexural Modulus	kg/cm ²	ASTM D-790	23°C	24500	25000	25000	24000	24000	25000
洛氏硬度 Rockwell Hardness	R-scale	ASTM D-785	23°C	117	117	117	117	117	117
IZOD 衝擊強度 Izod Impact Strength	kg-cm/cm	ASTM D-256	1/8" bar / 23 °C	6.0	6.0	6.5	6.5	6.5	6.5
熱變形溫度 Heat Deflection Temperature	°C	ASTM D-648	Unannealed 18.6 kg/cm ² (1/4" bar)	61	62	62	60	60	63
密度 Density	g/cm ³	ISO 1183	23°C /23°C	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14	1.12-1.14
收縮率 Molding shrinkage	%	ASTM D-955	23°C /23°C	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8	1.5-1.8
特性 Speciality				擠出、高黏度、良好的機械性能、耐油性、耐衝擊性 Extrusion,High Viscosity,Good mechanical properties, Oil resistance, Impact resistance.					
用途 Application				板材、棒材、波紋管 Plate, Round rod, Wave tube	CPA 流延膜、IPA 吹塑膜 CPA film, IPA film	氣袋膜 Release film	高壓管 High pressure pipe	異型押出 Profile extrusion	吹塑 Blow molding

絕乾條件：烘料 80~ 90 °C x 8 小時或真空包裝拆包直接射出， 射出後試片放入乾燥皿 24 小時後測試物性。
Absolutely dry conditions: Bake the material at 80 ~ 90 °C × 8hr or unpack it directly and inject it.
After injection,the test piece is placed in a drying dish for 24 hours to test the physical properties.

以上數值係參考 ASTM,ISO 方法所測得，僅供選擇用途品級之參考。
All tests were run under laboratory conditions ASTM, ISO testing procedures.
The data are intended as a general guide only.





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English