

台化PP樹脂產品

TAIRIPRO POLYPROPYLENE RESIN

耐衝擊共聚物
Impact Copolymer

押出級
Extrusion

性質 Properties	單位 Unit	B8001		T8002
熔融指數 Melt Flow Index	g/10min.	0.3		1.0
IZOD 衝擊強度 IZOD Impact Strength	kgf.cm / cm (J/m)	23℃ (73°F)	80 (784)	75 (735)
		-20℃ (0°F)	11 (108)	10.8 (106)
比重 Specific Gravity	-	0.90		0.90
降伏點抗張強度 Tensile Strength at Yield	kgf/cm² (MPa)	270 (26)		270 (26)
斷裂點延伸率 Tensile Elongation at break	%	>200		>200
彎曲模數 Flexural Modulus	kgf/cm² (MPa)	11000 (1078)		11000 (1078)
硬度 Hardness	R-Scale	80		80
熱變形溫度 Heat Deflection Temperature	℃	105		105
收縮率 Molding Shrinkage	%	1.5~1.9		1.5~1.9
FDA 21 CFR 177.1520 Compliance		Yes		Yes
UL 94 (File E162823)		-		-
JHOSPA-PL		-		-
特性 Characteristics		高耐衝擊、抗低溫脆化、光澤性佳 Hight impact strength, Excellent resistance to low temp. Brittleness,Good luster		
用途 Applications		PP管、真空成型板、吹製成型 PP Pipe, Thermoforming sheet, Blow molding		瓦楞板、吹瓶、 真空成型板 Corrugated sheet, Bottles, Thermoforming sheet

性質 Properties	熔融指數 Melt Flow Index	IZOD 衝擊強度 IZOD Impact Strength	比重 Specific Gravity	降伏點抗張強度 Tensile Strength at Yield	斷裂點延伸率 Tensile Elongation at break	彎曲模數 Flexural Modulus	硬度 Hardness	熱變形溫度 Heat Deflection Temperature	收縮率 Molding Shrinkage
試驗方法 Test Method	ASTM D-1238 (ISO 1133)	ASTM D-256 (ISO 180)	ASTM D-792 (ISO 1183)	ASTM D-638 (ISO 527)	ASTM D-638 (ISO 527)	ASTM D-790 (ISO 178)	ASTM D-785 (ISO 2039)	ASTM D-648 (ISO 75)	ASTM D-955 (ISO 2577)
試驗條件 Test Condition	230°C× 2.16kg	23°C 1/8"bar	23°C/23°C	23°C	23°C	23°C	23°C	Unannealed 4.6kg/cm ² 1/4"bar	23°C

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Impact Copolymer射出級
Injection Molding

性質 Properties	單位 Unit	K8802	K7005AN	K7005AG	K7025
熔融指數 Melt Flow Index	g/10min.	2.0	5	5	27
IZOD 衝擊強度 IZOD Impact Strength	kgf.cm / cm (J/m)	70 (686)	40 (392)	40 (392)	8.0 (78)
		10.0 (98)	5.0 (49)	5.0 (4.9)	4.5 (44)
比重 Specific Gravity	-	0.90	0.90	0.90	0.90
降伏點抗張強度 Tensile Strength at Yield	kgf/cm ² (MPa)	270 (26)	270 (26)	270 (26)	270 (26)
斷裂點延伸率 Tensile Elongation at break	%	>200	>200	>200	>200
彎曲模數 Flexural Modulus	kgf/cm ² (MPa)	11000 (1078)	14000 (1372)	14000 (1372)	14000 (1372)
硬度 Hardness	R-Scale	80	93	93	93
熱變形溫度 Heat Deflection Temperature	°C	105	120	120	120
收縮率 Molding Shrinkage	%	1.5~1.9	1.4~1.8	1.4~1.8	1.4~1.8
FDA 21 CFR 177.1520 Compliance		Yes	Yes	Yes	Yes
UL 94 (File E162823)		1.5mm HB 3.0mm HB All Color	1.5mm HB All Color	1.5mm HB All Color	1.5mm HB 3.0mm HB All Color
JHOSPA-PL		-	-	Yes	-
特性 Characteristics		高耐衝擊、抗低溫 脆化、光澤性佳 Hight impact strength, Excellent resistance to low temp. Brittleness, Good luster	高耐衝擊、 高剛性 Hight impact strength, High Stiffness	高耐衝擊、高剛 性、光穩定性佳 Hight impact strength, High Stiffness, Good light stability	高流動性、耐衝擊佳、 高剛性 High fluidity, Good impact strength, High Stiffness
用途 Applications		旅行箱配件 Suitcase Parts	汽機車配件、 辦公傢俱、 家電產品 Automotive parts, Furniture, Appliances	汽機車配件、辦公 傢俱、家電產品、 棧板、周轉箱 Automotive parts, Furniture, Appliances, Pallet, Crate containers	洗衣機槽、家電產品 Washing machine cylinder, Appliances

性質 Properties	熔融指數 Melt Flow Index	IZOD 衝擊強度 IZOD Impact Strength	比重 Specific Gravity	降伏點抗張強度 Tensile Strength at Yield	斷裂點延伸率 Tensile Elongation at break	彎曲模數 Flexural Modulus	硬度 Hardness	熱變形溫度 Heat Deflection Temperature	收縮率 Molding Shrinkage
試驗方法 Test Method	ASTM D-1238 (ISO 1133)	ASTM D-256 (ISO 180)	ASTM D-792 (ISO 1183)	ASTM D-638 (ISO 527)	ASTM D-638 (ISO 527)	ASTM D-790 (ISO 178)	ASTM D-785 (ISO 2039)	ASTM D-648 (ISO 75)	ASTM D-955 (ISO 2577)
試驗條件 Test Condition	230°C× 2.16kg	23°C 1/8"bar	23°C/23°C	23°C	23°C	23°C	23°C	Unannealed 4.6kg/cm ² 1/4"bar	23°C

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Impact Copolymer

射出級
Injection Molding

性質 Properties	單位 Unit	K8003	K8003AN	K8009	K8025
熔融指數 Melt Flow Index	g/10min.	3	4	9	28
IZOD 衝擊強度 IZOD Impact Strength	kgf.cm / cm (J/m)	60 (588)	60 (588)	40 (392)	12.5 (123)
		9.5 (93)	9.0 (88)	7.4 (73)	6.2 (61)
比重 Specific Gravity	-	0.90	0.90	0.90	0.90
降伏點抗張強度 Tensile Strength at Yield	kgf/cm ² (MPa)	260 (25)	260 (25)	230 (22)	230 (22)
斷裂點延伸率 Tensile Elongation at break	%	>200	>200	>200	>200
彎曲模數 Flexural Modulus	kgf/cm ² (MPa)	11000 (1078)	12000 (1176)	11000 (1078)	11000 (1078)
硬度 Hardness	R-Scale	80	83	80	80
熱變形溫度 Heat Deflection Temperature	°C	110	115	110	110
收縮率 Molding Shrinkage	%	1.4~1.8	1.4~1.8	1.4~1.8	1.4~1.8
FDA 21 CFR 177.1520 Compliance		Yes	Yes	Yes	Yes
UL 94 (File E162823)		1.5mm HB All Color	1.5mm HB All Color	1.5mm HB All Color	1.5mm HB All Color
JHOSPA-PL		-	-	-	-
特性 Characteristics		高耐衝擊、剛性佳 High impact strength, Good Stiffness	高耐衝擊性、高剛性、抗靜電優 Excellent impact strength, High stiffness, Excellent anti-static	高耐衝擊、流動性佳 High impact strength, Good fluidity	高流動性、耐衝擊性佳 High fluidity, Good impact strength
用途 Applications		嬰兒車、油漆桶、運動器材、行李箱 Baby-car parts, Paint drum, Sports appliance, Base of luggage	油漆桶、運動器材、行李箱 Paint drum, Sports appliance, Base of luggage	汽機車配件、電池盒、電器零件、辦公傢俱 Automotive parts, Battery case, Electric appliance parts, Furniture	汽機車配件、洗衣機內槽、工具箱 Automotive parts, Washing machine parts, Tool boxes

性質 Properties	熔融指數 Melt Flow Index	IZOD 衝擊強度 IZOD Impact Strength	比重 Specific Gravity	降伏點抗張強度 Tensile Strength at Yield	斷裂點延伸率 Tensile Elongation at break	彎曲模數 Flexural Modulus	硬度 Hardness	熱變形溫度 Heat Deflection Temperature	收縮率 Molding Shrinkage
試驗方法 Test Method	ASTM D-1238 (ISO 1133)	ASTM D-256 (ISO 180)	ASTM D-792 (ISO 1183)	ASTM D-638 (ISO 527)	ASTM D-638 (ISO 527)	ASTM D-790 (ISO 178)	ASTM D-785 (ISO 2039)	ASTM D-648 (ISO 75)	ASTM D-955 (ISO 2577)
試驗條件 Test Condition	230°C× 2.16kg	23°C 1/8"bar	23°C/23°C	23°C	23°C	23°C	23°C	Unannealed 4.6kg/cm ² 1/4"bar	23°C

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Injection Molding

性質 Properties	單位 Unit	K8050	K8065	K8095	K9010	K9017
熔融指數 Melt Flow Index	g/10min.	50	65	95	9	17
IZOD 衝擊強度 IZOD Impact Strength	kgf.cm / cm (J/m)	10 (98)	9.0 (88)	7.0 (69)	50 (490)	45 (441)
		5.0 (49)	4.8 (47)	4.5 (44)	8.5 (83)	8.3 (81)
比重 Specific Gravity	-	0.90	0.90	0.90	0.90	0.90
降伏點抗張強度 Tensile Strength at Yield	kgf/cm ² (MPa)	240 (23)	240 (23)	210 (21)	220 (22)	210 (21)
斷裂點延伸率 Tensile Elongation at break	%	>100	>100	>50	>200	>200
彎曲模數 Flexural Modulus	kgf/cm ² (MPa)	12500 (1225)	12500 (1225)	10000 (980)	10000 (980)	9000 (882)
硬度 Hardness	R-Scale	85	85	78	78	76
熱變形溫度 Heat Deflection Temperature	°C	115	115	108	110	98
收縮率 Molding Shrinkage	%	1.4~1.8	1.4~1.8	1.4~1.8	1.4~1.8	1.4~1.8
FDA 21 CFR 177.1520 Compliance		Yes	Yes	Yes	Yes	Yes
UL 94 (File E162823)		1.5-1.65mm HB All Color	-	-	1.5mm HB 3.0mm HB All Color	1.5mm HB 3.0mm HB All Color
JHOSPA-PL		-	-	-	-	-
特性 Characteristics		高流動性、耐衝擊性佳、高剛性、低翹曲 High fluidity, Good impact strength, High Stiffness, Low warpage	高流動性、耐衝擊性佳、高剛性、低翹曲、抗靜電 High fluidity, Good impact strength, High Stiffness, Low warpage, Anti-static	高流動性、耐衝擊性佳、剛性佳 High fluidity, Good impact strength, Good Stiffness	高耐衝擊、流動性佳 High impact strength, Good fluidity	高流動性、抗UV、高耐衝擊 High fluidity, Anti-UV, High impact strength
用途 Applications		洗衣機槽、大型整理箱、薄壁產品 Washing machine, Storage boxes, Thin wall products		汽機車配件 Automotive parts	保險桿、汽機車配件、載重容器、棧板 Bumper, Automotive parts, Heavy duty container, Pallet	

性質 Properties	熔融指數 Melt Flow Index	IZOD 衝擊強度 IZOD Impact Strength	比重 Specific Gravity	降伏點抗張強度 Tensile Strength at Yield	斷裂點延伸率 Tensile Elongation at break	彎曲模數 Flexural Modulus	硬度 Hardness	熱變形溫度 Heat Deflection Temperature	收縮率 Molding Shrinkage
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試驗條件 Test Condition	230°C× 2.16kg	23°C 1/8"bar	23°C/23°C	23°C	23°C	23°C	23°C	Unannealed 4.6kg/cm ² 1/4"bar	23°C

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Injection Molding

性質 Properties	單位 Unit	K7009	K7009AH	K9030	KP03B	K3029
熔融指數 Melt Flow Index	g/10min.	9	9	32	30	32
IZOD 衝擊強度 IZOD Impact Strength	kgf.cm / cm (J/m)	11 (108)	11 (108)	50 (490)	5.0 (49)	15 (147)
		4.6 (45)	4.6 (45)	8.0 (78)	3.7 (36)	7.0 (69)
比重 Specific Gravity	-	0.90	0.90	0.90	0.90	0.90
降伏點抗張強度 Tensile Strength at Yield	kgf/cm ² (MPa)	260 (25)	260 (25)	200 (20)	260 (25)	210 (21)
斷裂點延伸率 Tensile Elongation at break	%	>200	>200	>200	>100	>100
彎曲模數 Flexural Modulus	kgf/cm ² (MPa)	13500 (1323)	13500 (1323)	8500 (833)	13500 (1323)	10000 (980)
硬度 Hardness	R-Scale	94	94	66	94	75
熱變形溫度 Heat Deflection Temperature	°C	120	120	100	115	108
收縮率 Molding Shrinkage	%	1.4~1.8	1.4~1.8	1.4~1.8	1.4~1.8	1.4~1.8
FDA 21 CFR 177.1520 Compliance		Yes	Yes	-	-	-
UL 94 (File E162823)		1.5mm HB 3.0mm HB All Color	1.5mm HB 3.0mm HB All Color	-	1.5mm HB 3.0mm HB All Color	1.5mm HB 3.0mm HB All Color
JHOSPA-PL		-	-	-	Yes	-
特性 Characteristics		高剛性、 耐衝擊性佳 High stiffness, Good impact strength	長期耐熱性佳、高 剛性、耐衝擊性佳 Long term heat resistance, High stiffness, Good impact strength	高流動性、 高耐衝擊 High fluidity, High impact strength	高流動性、 耐衝擊性佳 High fluidity, Good impact strength	高流動性、 高耐衝擊 High fluidity, High impact strength
用途 Applications		汽機車配件、 辦公傢俱、 家電產品 Automotive parts, Furniture, Appliances	電器零件、 汽機車配件、 RTI=125°C Electric appliance parts, Automotive parts, RTI=125°C	保險桿、 汽車配件、 薄壁產品 Bumper, Automotive parts, Thin wall products	汽車配件、 大型整理箱、 薄壁產品 Automotive Parts, Storage boxes, Thin wall products	保險桿、 汽車配件、 薄壁產品 Bumper, Automotive parts, Thin wall products

性質 Properties	熔融指數 Melt Flow Index	IZOD 衝擊強度 IZOD Impact Strength	比重 Specific Gravity	降伏點抗張強度 Tensile Strength at Yield	斷裂點延伸率 Tensile Elongation at break	彎曲模數 Flexural Modulus	硬度 Hardness	熱變形溫度 Heat Deflection Temperature	收縮率 Molding Shrinkage
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試驗條件 Test Condition	230°C× 2.16kg	23°C 1/8"bar	23°C/23°C	23°C	23°C	23°C	23°C	Unannealed 4.6kg/cm ² 1/4"bar	23°C