技 術 資 料 表
Technical Data Sheet

ATRU TYPE

50%礦物粉填充，尺寸安定，低收縮，增韌耐衝擊、高耐寒，使用溫度範圍達-40~95℃之間，抗 UV 耐候性佳

With 50% mineral powder filler, it offers dimensional stability, low shrinkage, toughened impact resistance, high cold resistance, and a service temperature range of -40 to 95° C. It also exhibits excellent UV resistance and weather resistance

樹酯 Resin	**PP** Polypropylene
規格 Grade	ATRU5XGA-G22
來源 Source	上禾伸企業 SHANG HE SHEN ENTERPRISE CO., Ltd.

描述 Description

■50%礦物粉填充，尺寸安定，低收縮。
50% mineral powder filler, dimensionally stable, low shrinkage.
■增韌耐衝擊、高耐寒，使用溫度範圍達-40~95℃之間。
It is toughened and impact-resistant, highly cold-resistant, and can be used in temperatures ranging from -40 to 95°C.
■抗中酸、強鹼，抗藥性、抗化學性佳，對於醇類、醛類等抗受性佳，耐水性良好不容易水解。
It is resistant to moderate acids and strong alkalis, has good drug and chemical resistance, good resistance to alcohols and aldehydes, and good water resistance and is not easily hydrolyzed.
■抗 UV 耐候性佳，可長時間光線照射塑料穩定，變色性緩慢。
It has excellent UV resistance and weather resistance, and the plastic remains stable even after long-term exposure to sunlight, with slow discoloration.
■加工性容易，成型效率高。
It is easy to process and has high molding efficiency.
■符合 ROHS/REACH 規範。
Compliant with ROHS/REACH regulations.

應用 Application

必須抗 UV 耐候、抗化學性、耐水性佳的戶外用產品，如汽車用零件，機車用零件，工程、建材用品，尤其溫度極低的戶外環境相關用品。
Outdoor products must be UV resistant, weather resistant, chemical resistant, and water resistant, such as automotive parts, motorcycle parts, engineering and building materials, especially products for outdoor environments with extremely low temperatures.

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成型模式
Forming mode
射出成型
Injection Molding

特性 Properties

項目 Project	測試標準 Testing standards	單 位 Unit	標準數值 Typical Value
填充劑含量 Filler Content		%	50
比重 Specific Gravity	ASTM D792	g/cm³	1.4
流動指數 MFR,(MI) 190×2.16KG	ASTM D1238	g/10min	12
收縮率-平行 ‖ Mold Shrinkage MD	3 mm t	%	0.8
收縮率-垂直 ⊥ Mold Shrinkage TD			~10
耐燃性 Flammability	UL-94		HB
顏色 Color			本色-白色 Natural color - white
機械特性 Mechanical properties			
伸張降伏強度 Tensile Strength at Yield	ASTM D638	kg/ cm²	190
伸張斷裂強度 Tensile Strength at Break			150
拉伸模數 Tensile Modulus			7200
斷裂伸張率 Tensile Elongation at Break		%	15
彎曲強度 Flexural Strength	ASTM D790	kg/ cm²	250
彎曲模數 Flexural Modulus			14500
衝擊強度(缺口式)IZOD Impact (notched)	ASTM D256	23℃ kg-cm/cm	7.5
		-40℃ kg-cm/cm	3
硬度 Rockwell/Shore Hardness	ASTM D785/D2240	D	59
熱力特性 Heat properties			
熱變型溫度 18.54kg/ cm² Heat distortion temperature H D T	ASTM D648	℃	**
熱變型溫度 4.6kg/ cm² Heat distortion temperature H D T			95
熔融溫度 Melting temperature	DSC		155

建議成型條件 Recommended molding conditions

烘乾溫度 Drying temp. ℃	100	烘乾時間 Drying time H	1~2
進料區溫度 Feed zone temp. ℃	170~190	壓縮區溫度 Compression zone temp. ℃	175~195
計量區溫度 Metering zone temp. ℃	175~195	噴嘴溫度 Nozzle temp. ℃	180~200
模具溫度 Mold temp. ℃		射出壓力 Injection pressure Kg/ cm²	400~700

*雖然上述信息是出於善意並被認為是準確的，但我們不保證依賴此類信息取得令人滿意的結果，並且不承擔因使用此類信息而引起的任何損失或損害的全部責任。*以上數值係僅供選擇用途品級之參考。
Although the above information is made in good faith and is believed to be accurate, we do not guarantee reliance on such information to obtain satisfactory results, and we do not assume full responsibility for any loss or damage caused by the use of such information. The above values are for reference only for the selected grade.

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