

TECHNICAL DATA SHEET

ORGALLOY® RS 6000 NAT

POLYAMIDE ALLOY PELLET

ORGALLOY® RS 6000 NAT is a polyamide alloy. This natural grade is designed for injection molding and offers an outstanding dimensional stability, chemical resistance to automotive fluids and is ideal for the realization of complex parts.

TYPE

PA*

MAIN APPLICATIONS

- 전자 화학물질 - 태양 전지
- 액세서리
- 산업 - 유통
- 자동차 - 기타 사출 (문의)

배송 방식 (문의)

- 파렛트

가공 공정 (문의 - 또는 변형 공정)

- 사출 성형

첨가제

- 열 안정화 처리
- 광 안정화 처리

RHEOLOGICAL PROPERTIES

속성	값	UNIT	테스트 표준
Melt volume flow rate (MVR), 235°C / 2.16 kg (455°F / 4.4 lb)	8	cm³/10min	ISO 1133
Shrinkage, Parallel (t+24h)	1.0	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.3	%	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
Hardness, Shore D, 15 s	- / 73		ISO 868
Charpy unnotched impact strength, 23°C (73°F)	61 / 67	kJ/m²	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	59 / 59	kJ/m²	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	7 / 8	kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	5 / 5	kJ/m²	ISO 179 1eA
Nominal strain at break, 23°C (73°F), 50 mm/min	14 / 21	%	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	4 / 6	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	55 / 47	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	2280 / 2030	MPa	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 1650	MPa	ISO 178

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

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속성	값	UNIT	테스트 표준
Vicat softening temperature, 50N at 50°C/h	150	°C	ISO 306
Heat deflection temperature, 0.45 MPa	130	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	71	°C	ISO 75-1/-2
Melting temperature, 10°C/min	220	°C	ISO 11357-1/-3

THERMAL PROPERTIES ELECTRICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
Surface resistivity, 23°C (73°F)	- / >1E15	ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	- / >1E13	ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73°F)	- / 600		IEC 60112
Dielectric stress, 23°C (73°F)	- / 38		IEC 60243-1
Relative permittivity, 100Hz	- / 3		
Relative permittivity, 1Mhz	- / 3		
Dissipation factor, 100Hz	- / 620		
Dissipation factor, 1Mhz	- / 620		

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COND: Conditionned.

OTHER PROPERTIES

속성	값	UNIT	테스트 표준
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	2.2	%	ISO 62
Water absorption, 23°C (73°F), immersion, equilibrium	6.6	%	ISO 62
Specific gravity, 23°C (73°F)	1.03	g/cm³	ISO 1183-1

포장 (문의 - 순서 이상)

Available packaging:
• 25 kg / 55 lb 포대

보관수명 (문의 - 순서 이상)

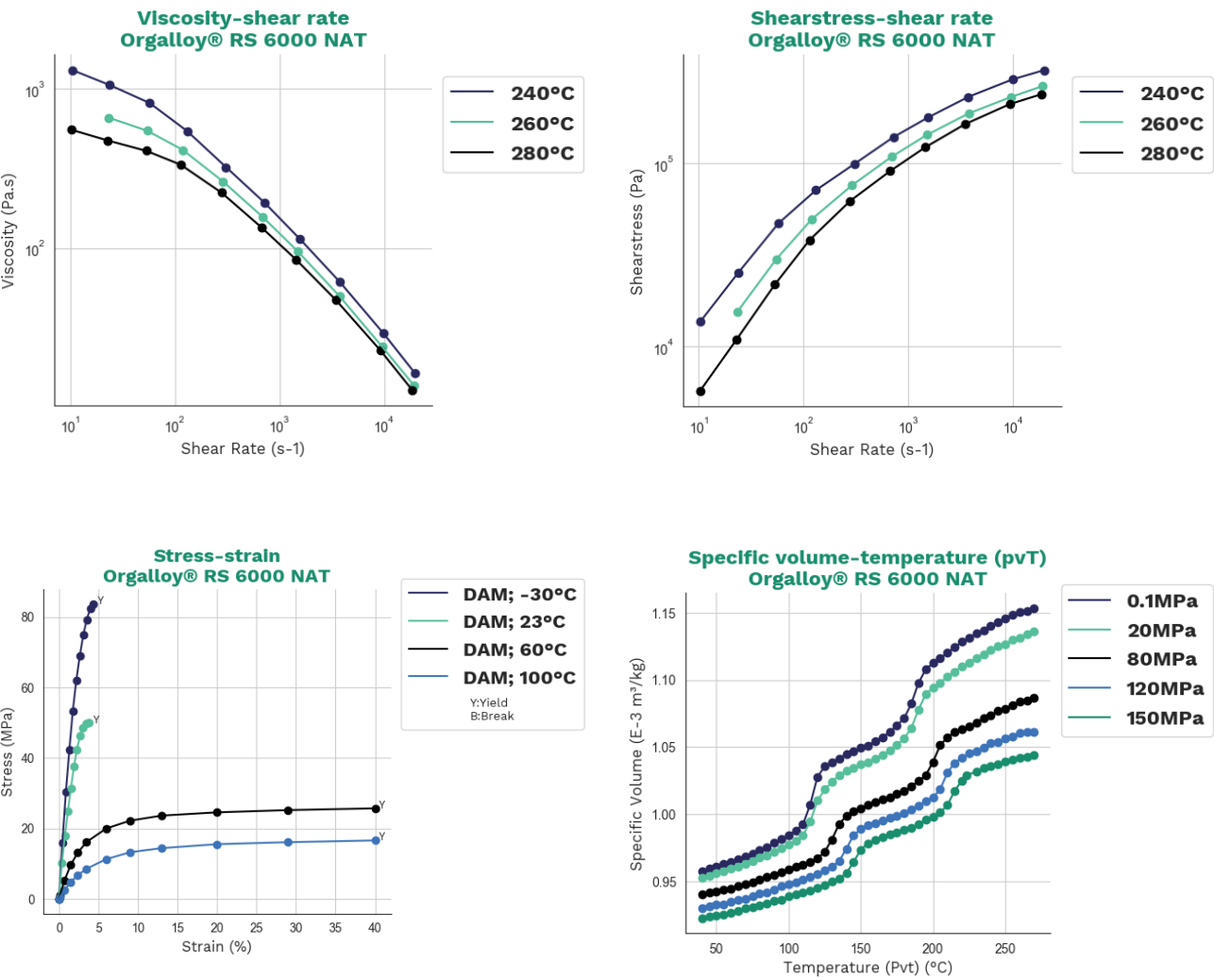
적절히 보관할 시(밀봉 백, 적정 습도, UV 차단 및 온도) 인도일로부터 2년. 이 기한을 초과하는 일체의 사용에 대해서는 기술 서비스를 참조하십시오.

PROCESSING CONDITIONS:

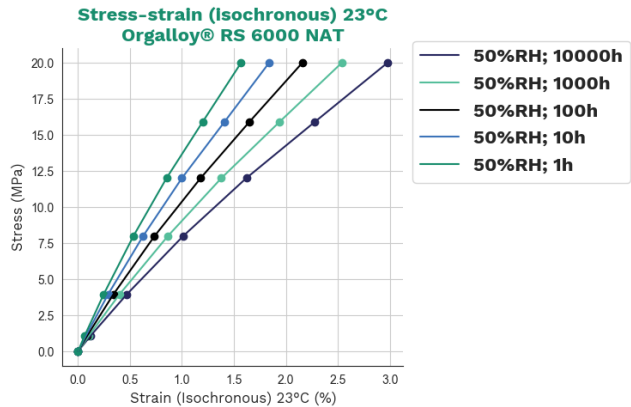
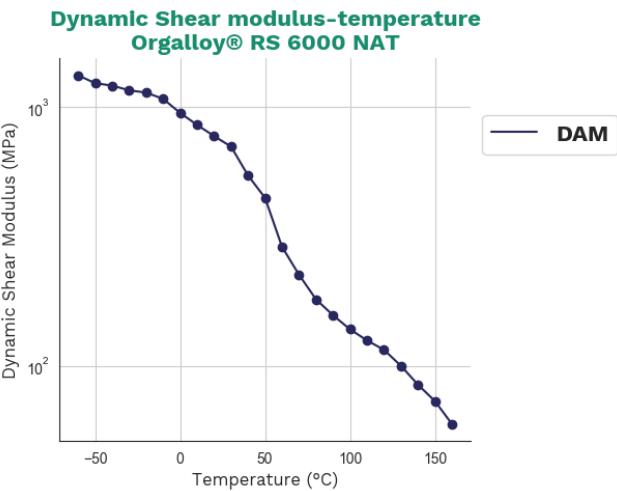
- 일반적인 용융 온도(최소/권장/최대) - 사출 성형: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- 일반적인 금형 온도 - 사출 성형: 20-60°C (70-140°F)
- 건조 시간 및 온도: 80-90°C (175-195°F) / 4-6시간

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DIAGRAMS



ORGALLOY® RS 6000 NAT



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