

TECHNICAL DATA SHEET
PEBAX® RNEW® 55R53 SP 01

POLYETHER BLOCK AMIDE PELLET

PEBAX® RNEW® 55R53 SP 01 is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. It is partially produced from a renewable & sustainable source (castor oil). This SP grade is heat & UV stabilized. It is used in sport and consumer applications.

TYPE

PEBA

MAIN APPLICATIONS

- 동계 스포츠 - 스키 부츠
- 신발류 - 밑창/구성품
- 기타
- 호스 및 튜브류

배송 방식

- 펠릿

가공 공정

- 압출 - 일반
- 필름 압출
- 사출성형
- 튜브 압출

첨가제

- 열 안정화
- 빛 안정제

RHEOLOGICAL PROPERTIES

속성	값	UNIT	테스트 표준
Shrinkage, Parallel (t+24h)	1.0	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.1	%	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
Hardness, Shore D, 15 s	- / 51		ISO 868
Charpy unnotched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No Break / No Break		ISO 179 1eU
Stress at 50% strain, 23°C (73°F), 50 mm/min	- / 13.4	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 160	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	No Break / No Break		ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 160	MPa	ISO 178
Stress at break, 23°C (73°F), 50 mm/min	- / 45	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 400	%	ISO 527-1/-2

*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	156	°C	ISO 306
Melting temperature, 10°C/min	167	°C	ISO 11357-1/-3

OTHER PROPERTIES

속성	값	UNIT	테스트 표준
Bio-based carbon content, Measured	64	%	
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.7	%	ISO 62
Water absorption, 23°C (73°F), immersion, equilibrium	1.5	%	ISO 62
Specific gravity, 23°C (73°F)	1.03	g/cm³	ISO 1183-1

포장

Available packaging:

- 20 kg / 44 lb 가방
- 25 kg / 55 lb 가방

보관수명

납품일로부터 2년 후, 적절히 보관될 때 (밀봉 봉지, 적절한 습도, 자외선 차단 및 온도). 이 한도를 초과하는 모든 사용에 대해서는 기술 서비스팀에 문의하십시오.

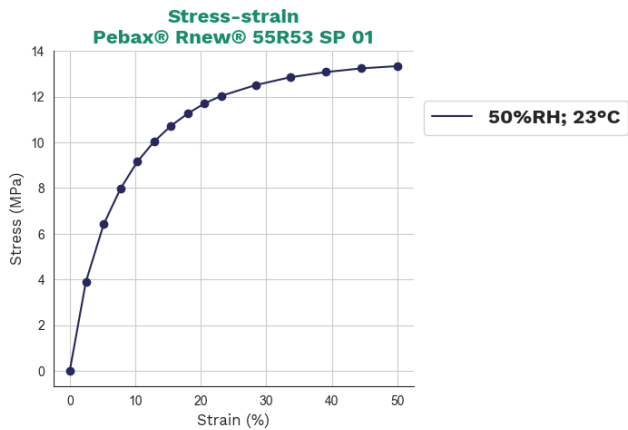
PROCESSING CONDITIONS:

- 일반적인 용융 온도(최소/권장/최대) - 사출 성형: 210°C / 240°C / 270°C (410°F / 430°F / 520°F)
- 일반적인 금형 온도 - 사출 성형: 20-60°C (70-140°F)
- 건조 시간 및 온도: 65-75°C (150-165°F) / 4-6 시간

특징

- 생물 기반

DIAGRAMS



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