



Product Data Sheet & General Processing Conditions

RTP 2700 S-50A Saturated Styrenic Block Copolymer (TES/SEBS or other) General Purpose

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.89	0.89	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0200 - 0.0300 in/in	2.00 - 3.00 %	D 955
MECHANICAL			
Tensile Strength	851 psi	6 MPa	D 412
Tensile Elongation	699.0 %	699.0 %	D 412
Tensile Stress @ 100 %	185.0 psi	1.3 MPa	D 412
Tear Strength, Die C	146.0 pli	25.6 N/mm	D 624
Peel Strength *** 90 degrees, 20 in/min (500 mm/min)			
PP, Failure Type R	> 35.0 pli	> 6.1 N/mm	RTP 55
PP (30% VLF), Failure Type D	> 35.0 pli	> 6.1 N/mm	RTP 55
PP (50% VLF), Failure Type D	18.0 pli	3.2 N/mm	RTP 55
Compression Set 22 h @ 23 °C (73 °F), Method B, Type 2	16 %	16 %	D 395
22 h @ 70 °C (158 °F), Method B, Type 2	41 %	41 %	D 395
Hardness Shore A, 10 s delay	49	49	D 2240
THERMAL			
Ignition Resistance*			
Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

** Values per RTP Company testing.

*** Values per RTP Company testing. Failure types: R=overmold failure, D=interface failure, S=substrate failure.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	5000 - 10000 psi	34 - 69 MPa
Melt Temperature	325 - 400 °F	163 - 204 °C
Mold Temperature	60 - 100 °F	16 - 38 °C
Drying	2 - 4 hrs @ 160 °F	2 - 4 hrs @ 71 °C
Moisture Content	0.04 %	0.04 %

PROCESSING NOTES

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This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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