



**Product Data Sheet &  
General Processing Conditions**

**RTP 2800 B-45A FR A  
Thermoplastic Vulcanizate (TPV)  
Flame Retardant  
PBDE Free**



**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.25	1.25	D 792
<b>MECHANICAL</b>			
Tensile Strength Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	400 psi	3 MPa	D 412
Tensile Elongation Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	480.0 %	480.0 %	D 412
Tensile Stress Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min) @ 100 %	150.0 psi	1.0 MPa	D 412
Tear Strength, Die C	75.0 pli	13.1 N/mm	D 624
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	27 %	27 %	D 395
22 h @ 100 °C (212 °F), Method B, Type 2	50 %	50 %	D 395
Hardness Shore A, 10 s delay	45	45	D 2240
<b>THERMAL</b>			
Ignition Resistance* Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94

**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.

**GENERAL PROCESSING FOR INJECTION MOLDING**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	12000 - 18000 psi	83 - 124 MPa
Melt Temperature	360 - 410 °F	182 - 210 °C
Mold Temperature	60 - 150 °F	16 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C
Moisture Content	0.03 %	0.03 %
Dew Point	0 °F	-18 °C

**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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