



**Product Data Sheet and
General Processing Conditions**

**RTP 1200 S GP90025530
Ester-based Thermoplastic Polyurethane
Elastomer (TPU)
Electrically Conductive
Profile Extrusion**

This compound offers low shore-hardness to get good flexibility and is therefore especially suitable for the manufacturing of flexible hoses of different diameters.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE		STANDARD
Density	1.23 g/cm ³	DIN 53479
Melt Flow Rate @ 190 °C/ 10.0 kg	13.0 g/10 min	ISO 1133
MECHANICAL		
Tensile Strain At Break	700 %	ISO 527-2/1A
Tear Strength	19 N/mm ²	ISO 527-1
Shore Hardness	83-86 A	DIN 53505
Abrasion, 3.2 mm thickness	54 mm ³	DIN 53516
Tear Growth Resistance, 2.2 mm thickness	65 N/mm ²	DIN 53515
ELECTRICAL		
Surface Resistance (23 °C, 50% RH) Flat film, 300 µm	10 ¹ -10 ² ohm	IEC 93

DATA 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.

GENERAL PROCESSING GUIDELINES

Melt Temperature	170–190 °C
Die Temperature	190 °C
Drying	4-6 hr @ 65 °C

PROCESSING NOTES

Use slow screw speed.

27 April 2012 JRB

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics for injection molding. Because injection mold 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.

No information supplied by RTP Company constitutes a warranty regarding product performance or use. Any information regarding performance or use is only offered as suggestion for investigation for use, based upon RTP Company or other customer experience. RTP Company makes no warranties, expressed or implied, concerning the suitability or fitness of any of its products for any particular purpose. It is the responsibility of the customer to determine that the product is safe, lawful and technically suitable for the intended use. The disclosure of information herein is not a license to operate under, or a recommendation to infringe any patents.