

# Desmopan 790

## TPU

Covestro Deutschland AG

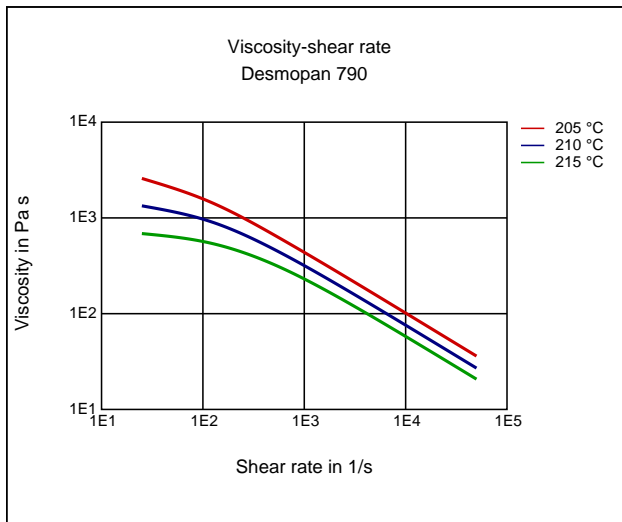
- Extrusion- and injection molding grade
- high mechanical strength
- Application:
  - Toothed belts
  - Profiles
  - Injection molded engineering parts

Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Stress (10% Elongation)	2.8	MPa	ISO 527
Stress at 100% Elongation	10.6	MPa	ISO 527
Stress at 300% Elongation	28	MPa	ISO 527
Stress at Break TPE	54	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	45	%	ISO 815
Tear strength	85	kN/m	ISO 34-1
Abrasion resistance	30	mm <sup>3</sup>	ISO 4649
Shore Hardness A (15s)	92	-	ISO 868
Shore Hardness D (15s)	40	-	ISO 868

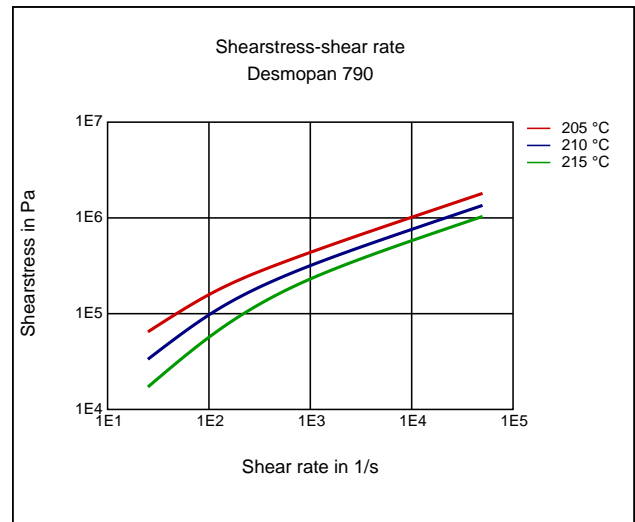
Other Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density	1210	kg/m <sup>3</sup>	ISO 1183

### Diagrams

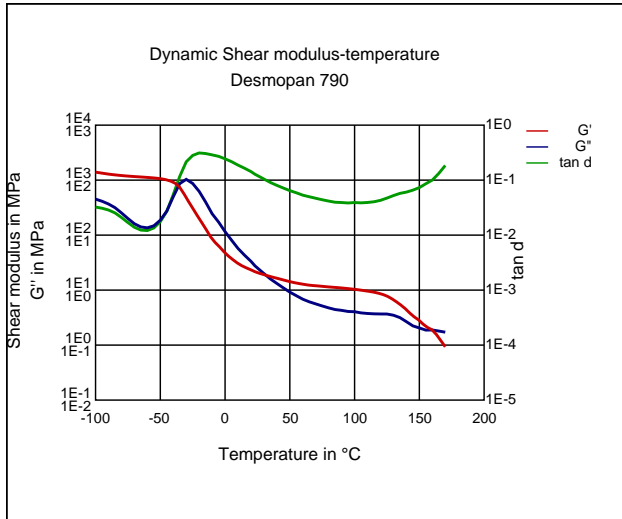
#### Viscosity-shear rate



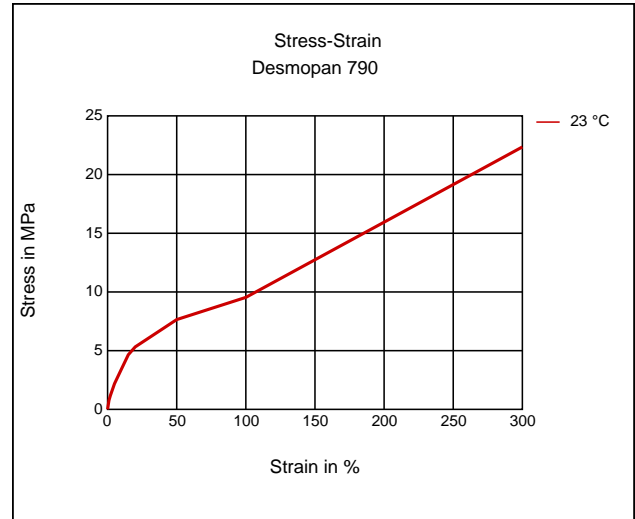
#### Shearstress-shear rate



**Dynamic Shear modulus-temperature**



**Stress-Strain (TPE)**



**Characteristics**

**Processing**

Injection Molding, Profile Extrusion, Other Extrusion

**Additives**

Lubricants

**Delivery form**

Pellets

**Injection Molding**

**PREPROCESSING**

Max. water content: 0.05 %  
Max. drying temperature: 80 °C  
Drying time:  
Dry air dryer 1-2 h

**PROCESSING**

Melt temperature: 210-230 °C  
Mold temperature: 20-40 °C

**Other Extrusion**

Preprocessing  
Max. Water content ≤0.05 %  
Drying temperature 70-110 °C  
Dry air dryer 1-2 h

**Profile extrusion**

Preprocessing  
Max. Water content ≤0.05 %  
Drying temperature 70-110 °C  
Dry air dryer 1-2 h

**Disclaimer**

**Liability Exclusion**

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. **NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.**

**Healthcare uses:** the supply of any product by ALBIS for any medical, pharmaceutical or diagnostic application is conditional to an assessment by ALBIS in terms of compliance with ALBIS' internal risk management policy – even for products which are in general designated for use in Healthcare applications.

**Important:** irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.