

Test report

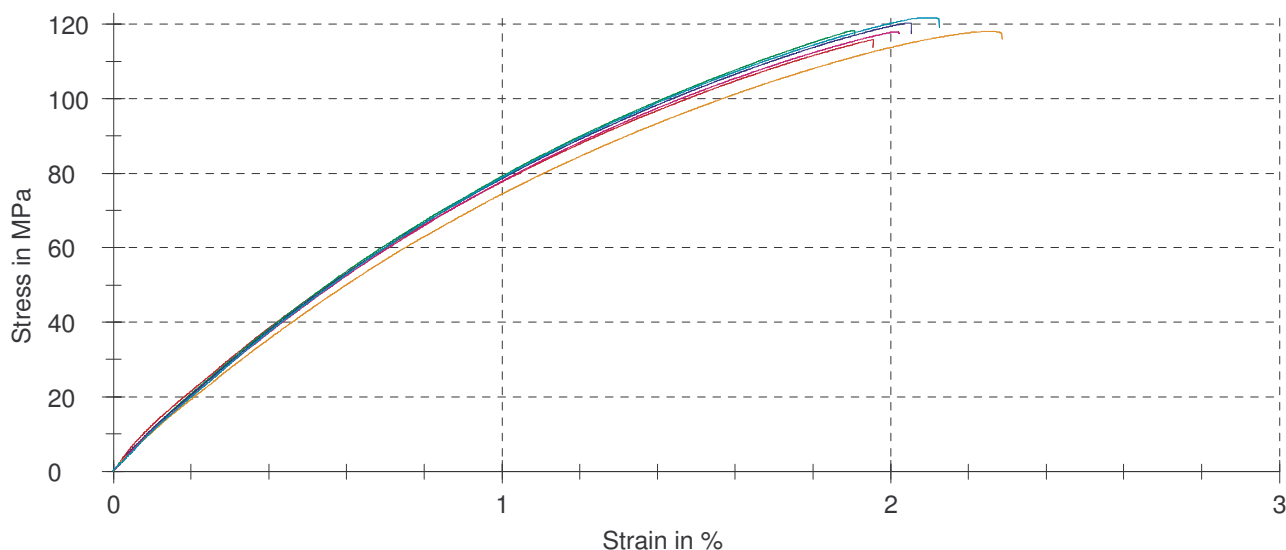
Job no. : 20080293-52 Tester : YANA
 Test standard : DIN EN ISO 527-1 Note :
 Material : P40B03 Machine data : ISO TENSILE POLYTRON NEW
 Pre-load : 0.1 MPa
 Speed, tensile modulus : 1 mm/min
 Test speed : 5 mm/min
 Grip to grip separation at the start position : 115.00 mm

Test results:

| No. | Specimen no. | Curve | σ_{low} MPa | σ_{high} MPa | E_t MPa | σ_y MPa | ϵ_y % | σ_m MPa | ϵ_m % | σ_b MPa | ϵ_b % | ϵ_{tb} % |
|-----|--------------|--------|-----------------------|------------------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
| 1 | 1 | Type a | 6.946 | 25.748 | 9280 | - | - | 116 | 2.0 | 116 | 2.0 | - |
| 2 | 2 | Type a | 6.064 | 25.168 | 9560 | - | - | 118 | 1.9 | 118 | 1.9 | - |
| 3 | 3 | Type a | 6.207 | 24.828 | 9260 | - | - | 120 | 2.0 | 120 | 2.0 | - |
| 4 | 4 | Type a | 5.673 | 23.369 | 8810 | - | - | 118 | 2.3 | 116 | 2.3 | - |
| 5 | 5 | Type a | 5.719 | 24.293 | 9190 | - | - | 118 | 2.0 | 118 | 2.0 | - |
| 6 | 6 | Type a | 5.340 | 24.267 | 9330 | - | - | 122 | 2.1 | 119 | 2.1 | - |

| No. | b mm | h mm | F Break <> Fmax |
|-----|---------|---------|-----------------|
| 1 | 9.87 | 3.91 | Yes |
| 2 | 9.87 | 3.91 | Yes |
| 3 | 9.87 | 3.91 | Yes |
| 4 | 9.87 | 3.91 | Yes |
| 5 | 9.87 | 3.91 | Yes |
| 6 | 9.87 | 3.91 | Yes |

Series graph:



Statistics:

| Series | Specimen no. | σ_{low} MPa | σ_{high} MPa | E_t MPa | σ_y MPa | ε_y % | σ_m MPa | ε_m % | σ_b MPa | ε_b % | ε_{tb} % | b mm | h mm |
|-----------|--------------|-----------------------|------------------------|--------------|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|-------------------------|---------|---------|
| n = 6 | | | | | | | | | | | | | |
| \bar{x} | 4 | 5.992 | 24.612 | 9240 | - | - | 119 | 2.0 | 118 | 2.1 | - | 9.87 | 3.91 |
| s | 2 | 0.559 | 0.826 | 245 | - | - | 2.07 | 0.12 | 1.73 | 0.14 | - | 0.000 | 0.000 |
| v [%] | 53.45 | 9.33 | 3.36 | 2.65 | - | - | 1.75 | 5.98 | 1.47 | 6.65 | - | 0.00 | 0.00 |