

|   |       |                        |                          |
|---|-------|------------------------|--------------------------|
| <b>Arnitel® CM600-V - Shore 61 D</b>      |       |                        |                          |
| TPC FR                                    |       |                        | DSM Engineering Plastics |
| <b>Product Texts</b>                      |       |                        |                          |
| Extrusion, Flame Retardant (halogen free) |       |                        |                          |
| ISO 18064 TPC-ES FR                       |       |                        |                          |
| <a href="#">Arnitel website</a>           |       |                        |                          |
| <b>Rheological properties</b>             | Value | Unit                   | Test Standard            |
| <b>ISO Data</b>                           |       |                        |                          |
| Melt volume-flow rate, MVR                | 13    | cm <sup>3</sup> /10min | ISO 1133                 |
| Temperature                               | 230   | °C                     | ISO 1133                 |
| Load                                      | 2.16  | kg                     | ISO 1133                 |
| <b>Mechanical properties</b>              | Value | Unit                   | Test Standard            |
| <b>ISO Data</b>                           |       |                        |                          |
| Tensile Modulus                           | 420   | MPa                    | ISO 527-1/-2             |
| Yield stress                              | 21    | MPa                    | ISO 527-1/-2             |
| Yield strain                              | 18    | %                      | ISO 527-1/-2             |
| Nominal strain at break                   | >50   | %                      | ISO 527-1/-2             |
| Charpy notched impact strength (+23°C)    | N     | kJ/m <sup>2</sup>      | ISO 179/1eA              |
| Stress at 10% elongation                  | 19.5  | MPa                    | ISO 527-1/-2             |
| Stress at 100% elongation                 | 16    | MPa                    | ISO 527-1/-2             |
| Stress at break TPE                       | 20.5  | MPa                    | ISO 527-1/-2             |
| <b>Thermal properties</b>                 | Value | Unit                   | Test Standard            |
| <b>ISO Data</b>                           |       |                        |                          |
| Melting temperature (10°C/min)            | 205   | °C                     | ISO 11357-1/-3           |
| Glass transition temperature, 10°C/min    | -10   | °C                     | ISO 11357-1/-2           |
| <b>Electrical properties</b>              | Value | Unit                   | Test Standard            |
| <b>ISO Data</b>                           |       |                        |                          |
| Relative permittivity, 100Hz              | 4.2   | -                      | IEC 60250                |
| Relative permittivity, 1MHz               | 3.7   | -                      | IEC 60250                |
| Dissipation factor, 100Hz                 | 157   | E-4                    | IEC 60250                |
| Dissipation factor, 1MHz                  | 385   | E-4                    | IEC 60250                |
| Volume resistivity                        | >1E13 | Ohm*m                  | IEC 60093                |
| Electric strength                         | 18.7  | kV/mm                  | IEC 60243-1              |
| <b>Other properties</b>                   | Value | Unit                   | Test Standard            |
| <b>ISO Data</b>                           |       |                        |                          |
| Density                                   | 1320  | kg/m <sup>3</sup>      | ISO 1183                 |

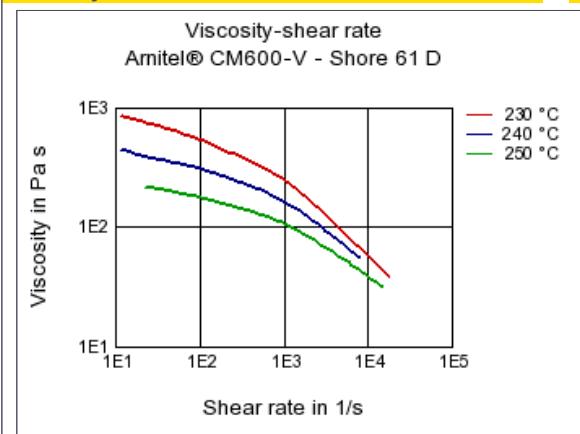
## Arnitel® CM600-V - Shore 61 D

TPC FR

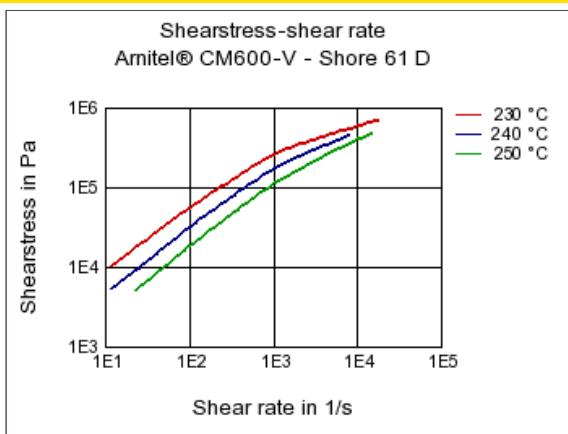
DSM Engineering Plastics

### Diagrams

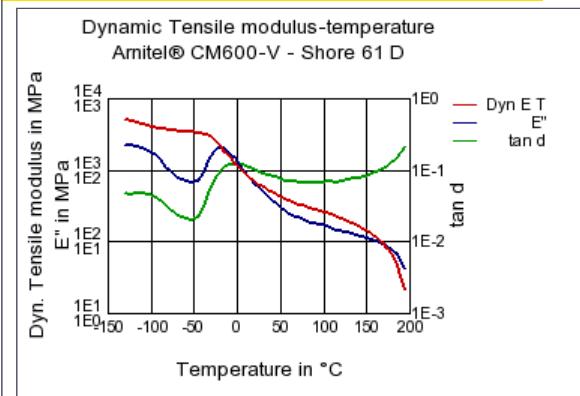
#### Viscosity-shear rate



#### Shearstress-shear rate



#### Dynamic Tensile modulus-temperature



### Characteristics

#### Processing

Other Extrusion

#### Special Characteristics

Flame retardant

#### Delivery form

Pellets

#### Other text information

#### Injection Molding

[Injection Molding Recommendations](#)