

**TECHNICAL DATA SHEET**

# Akulon® Ultraflow K-FG12

Envalior  
PA6-GF60

**Processing**

Injection molding

**Delivery Form**

Pellets

**Product Text**
**Product Information**

60% Glass Reinforced, High Flow

ISO 1043 PA6-GF60

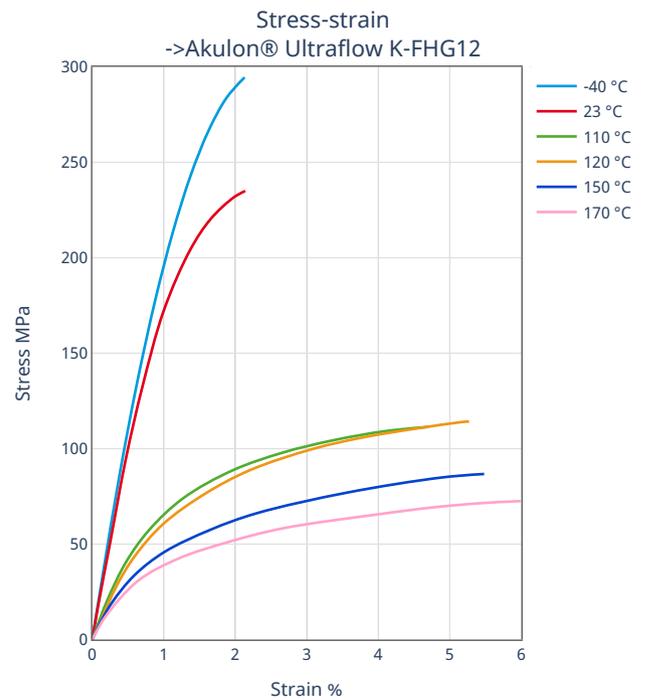
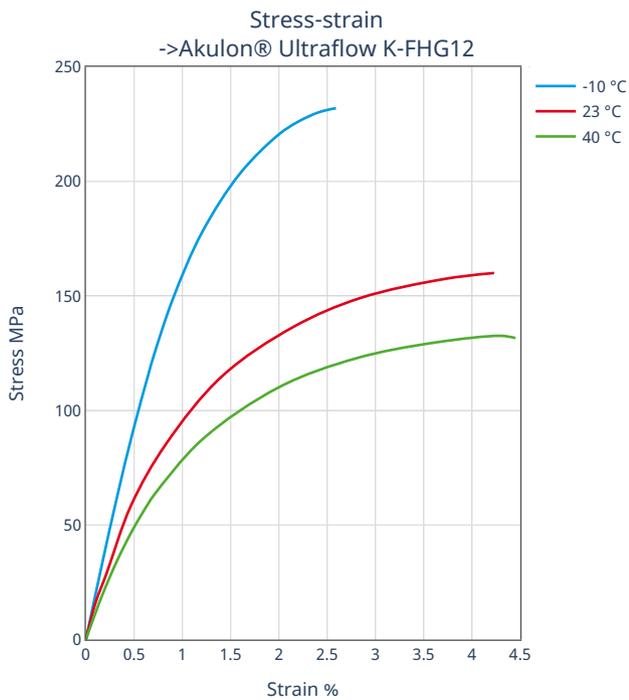
Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
Density of melt	1380	kg/m <sup>3</sup>	
Thermal conductivity of melt	0.39	W/(m K)	
Spec. heat capacity of melt	1720	J/(kg K)	
Eff. thermal diffusivity	1.64E-7	m <sup>2</sup> /s	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	20000	MPa	ISO 527
Stress at break	235	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	85	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	15	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	12	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	220	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	210	°C	ISO 75-1/-2

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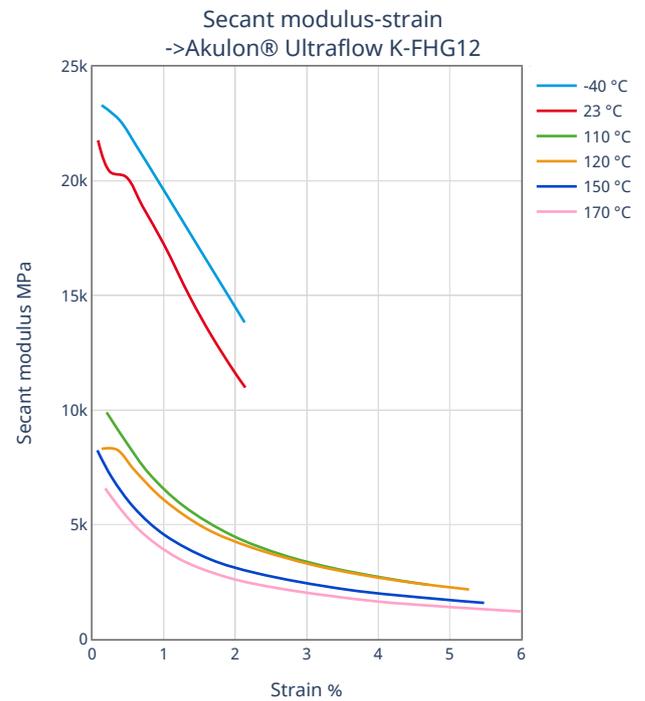
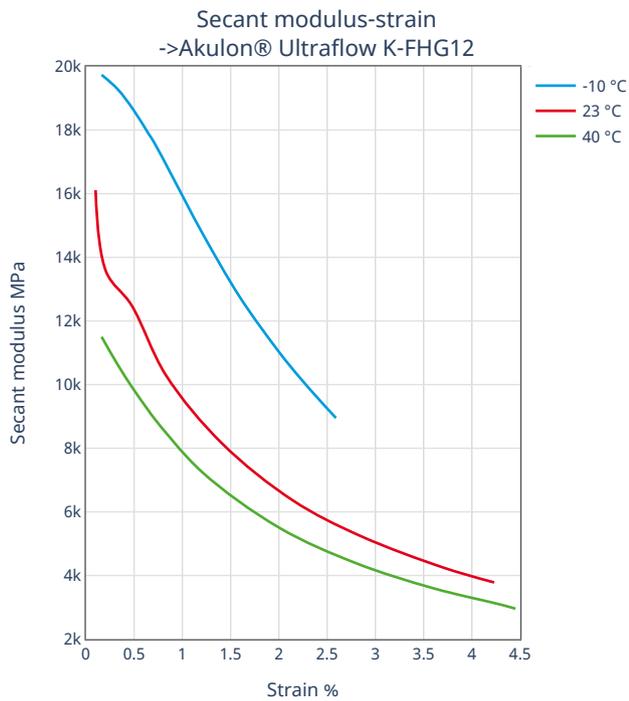
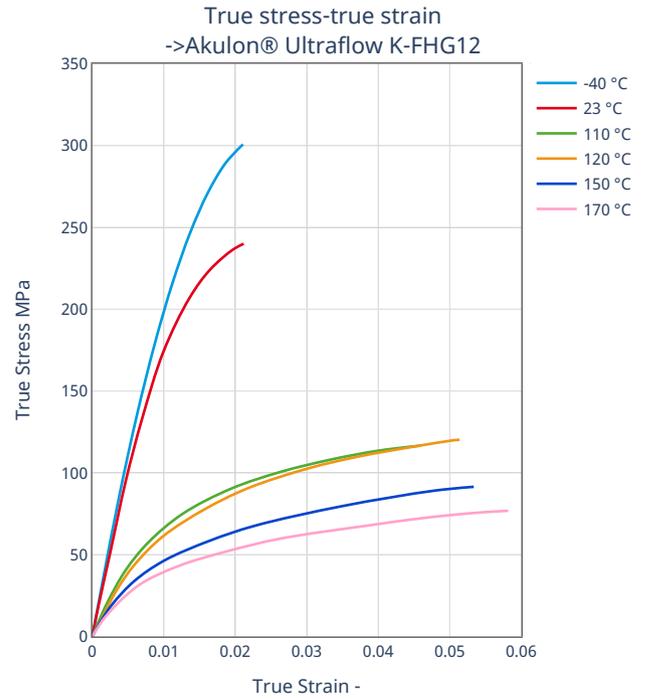
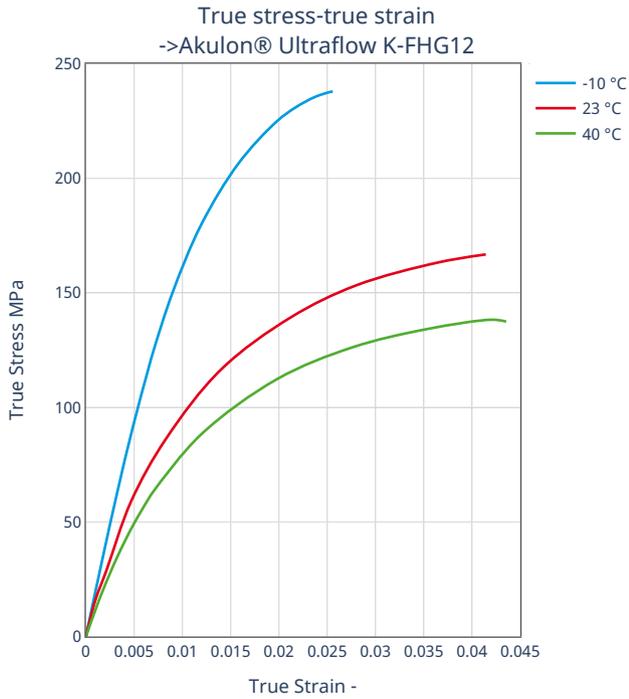
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 0.45 MPa	220	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	10	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	40	E-6/K	ISO 11359-1/-2
Other Properties	Value	Unit	Standard
Water absorption	3.6	%	Sim. to ISO 62
Humidity absorption	1	%	Sim. to ISO 62
Density	1700	kg/m <sup>3</sup>	ISO 1183

## Diagrams



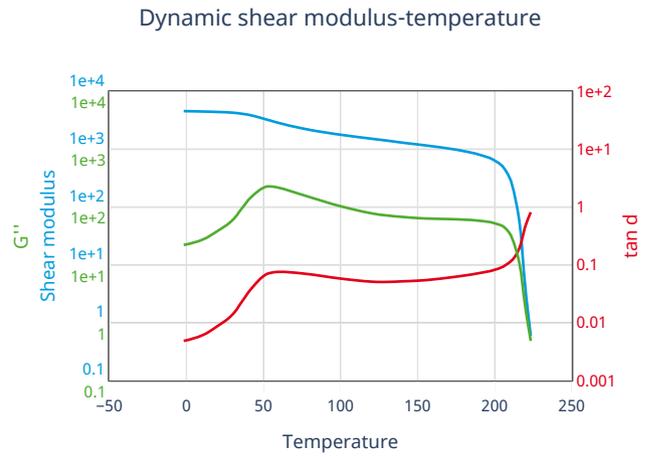
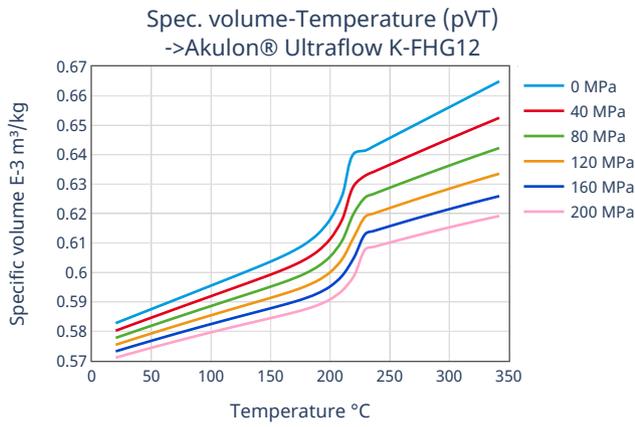
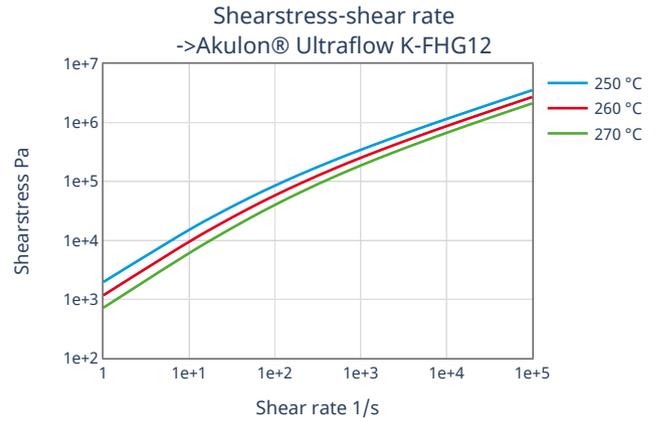
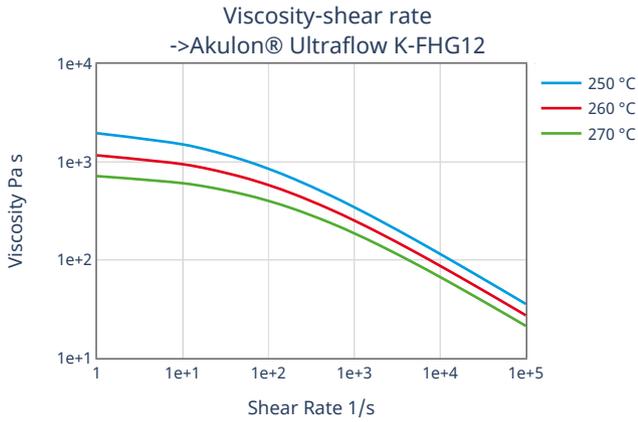
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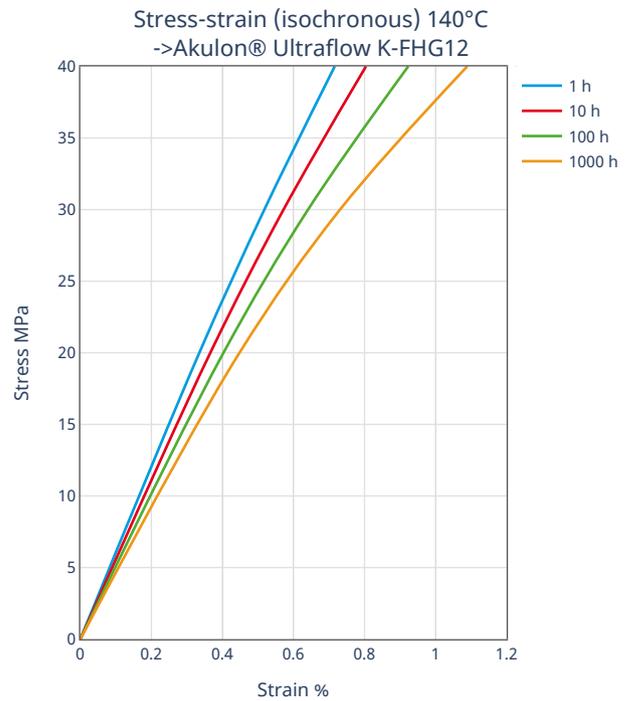
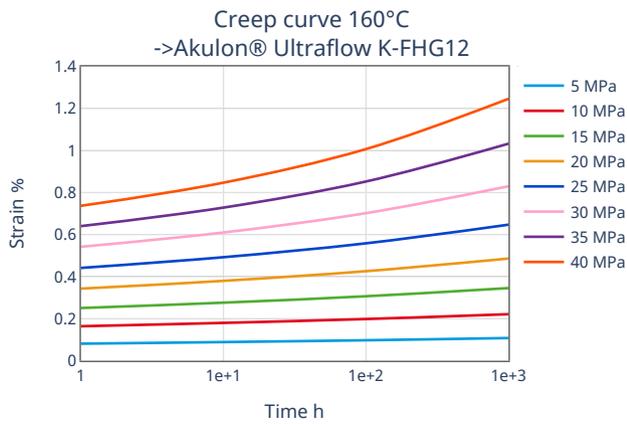
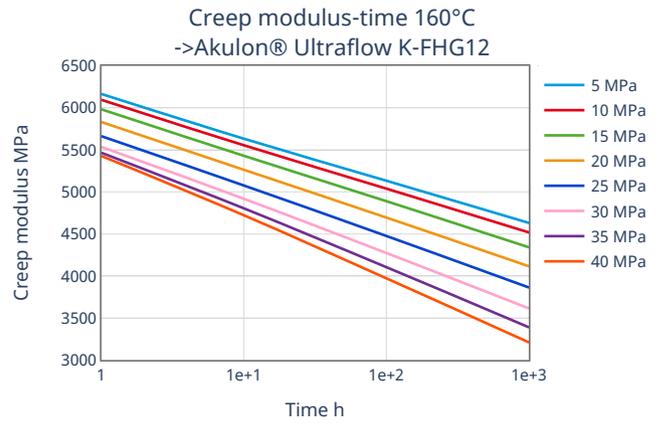
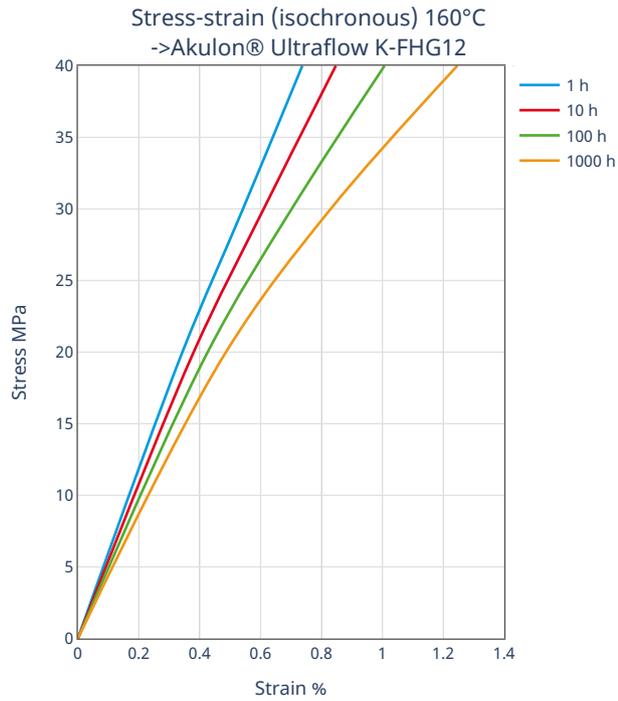
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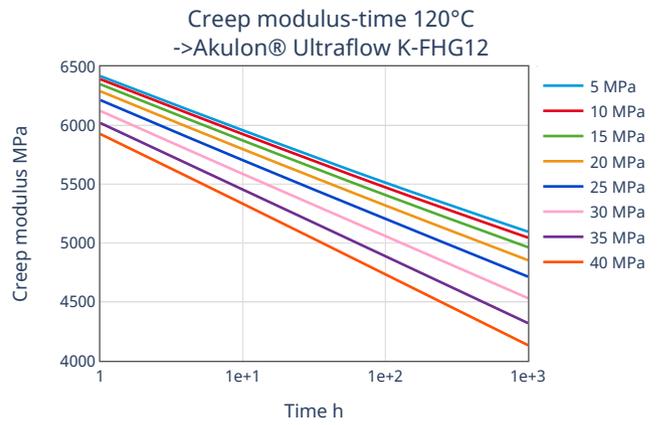
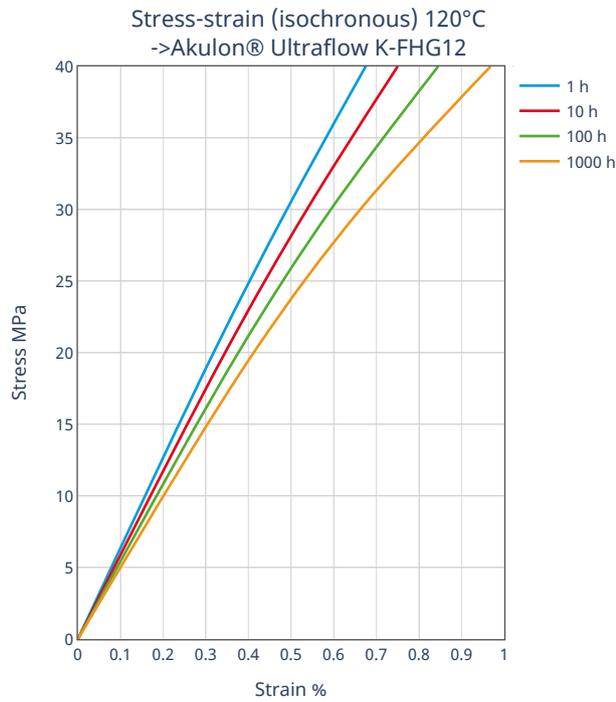
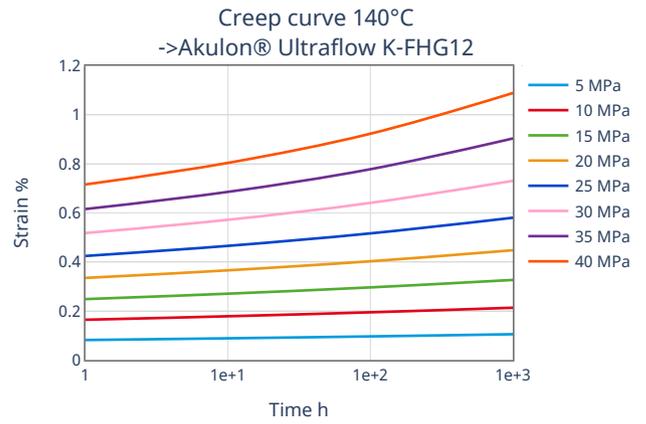
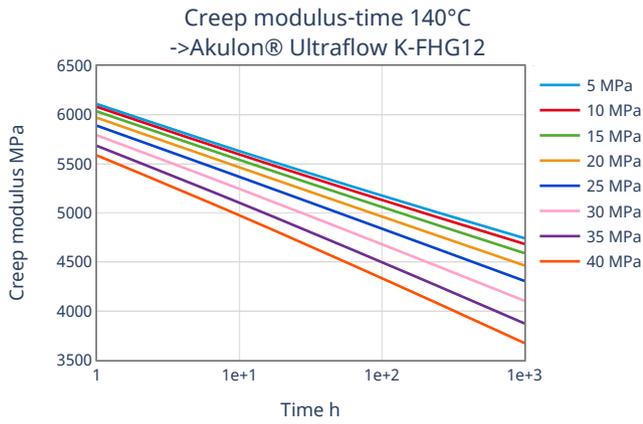
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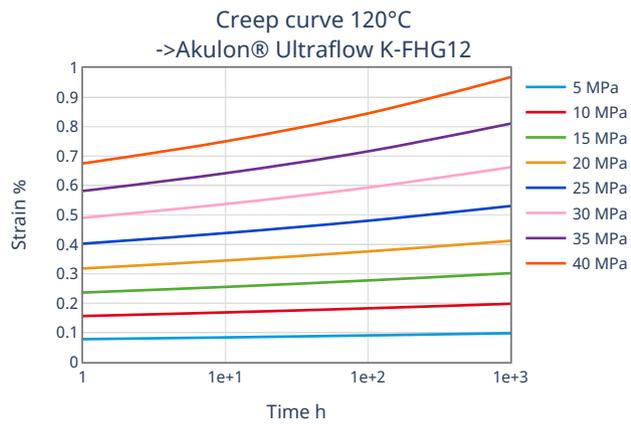
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## Processing Information

Injection molding

Injection Molding Recommendations