

TECHNICAL DATA SHEET

FLEXIRENE® MR 50 A

Versalis S.p.A
(PE-LLD)

Processing

Injection molding

Delivery Form

Pellets

Product Text

Product Information

Linear low density polyethylene with antioxidants. Suitable for injection moulding process. Parts made by Flexirene MR 50 A are characterised by optimum rigidity.

Applications

Thin-walled containers, lids, closures, houseware and shock absorbers.

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Density of melt	745.6	kg/m ³	
Thermal conductivity of melt	0.39	W/(m K)	
Spec. heat capacity of melt	2160	J/(kg K)	
Ejection temperature	65	°C	

Mechanical Properties	Value	Unit	Standard
Tensile modulus	500	MPa	ISO 527
Stress at 50% strain	15	MPa	ISO 527
Strain at break	>50	%	ISO 527
Poisson's ratio	0.35		ISO 527
Shore D hardness	56		ISO 7619-1

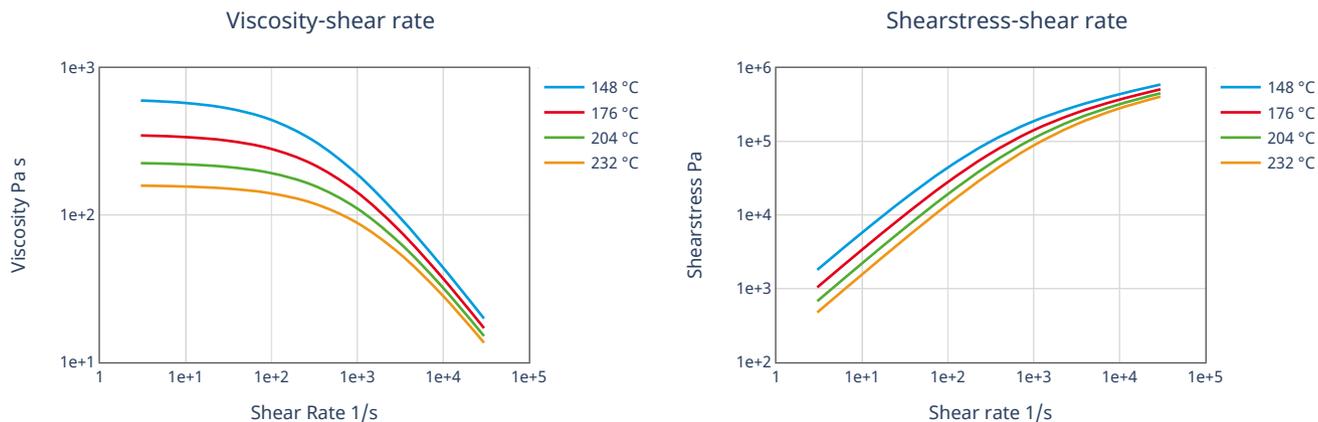
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	123	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	122	°C	ISO 11357-1/-2
Coeff. of linear therm. expansion, parallel	152	E-6/K	ISO 11359-1/-2

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Other Properties	Value	Unit	Standard
Density	939	kg/m ³	ISO 1183

Diagrams



Processing Information

Injection molding

#2

Typical processing temperature range:

Melt temperature 170 - 230 °C

Mold temperature 10- 40 °C