

TECHNICAL DATA SHEET

FLEXIRENE® MT40 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. Flexirene MT 40 A is characterised by an excellent processability together a good impact resistance.

Main applications

Large sized technical parts, houseware, closures, lids, cups, carrier-bag handles. Its high flowability makes it ideal for masterbatches preparation for LDPE and LLDPE

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	50	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Density of melt	790.9	kg/m ³	
Thermal conductivity of melt	0.39	W/(m K)	
Spec. heat capacity of melt	2527	J/(kg K)	
Ejection temperature	86	°C	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	220	MPa	ISO 527
Stress at 50% strain	10	MPa	ISO 527
Strain at break	>50	%	ISO 527
Poisson's ratio	0.35		ISO 527
Shore D hardness	47		ISO 7619-1
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	116	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	105	°C	ISO 11357-1/-2

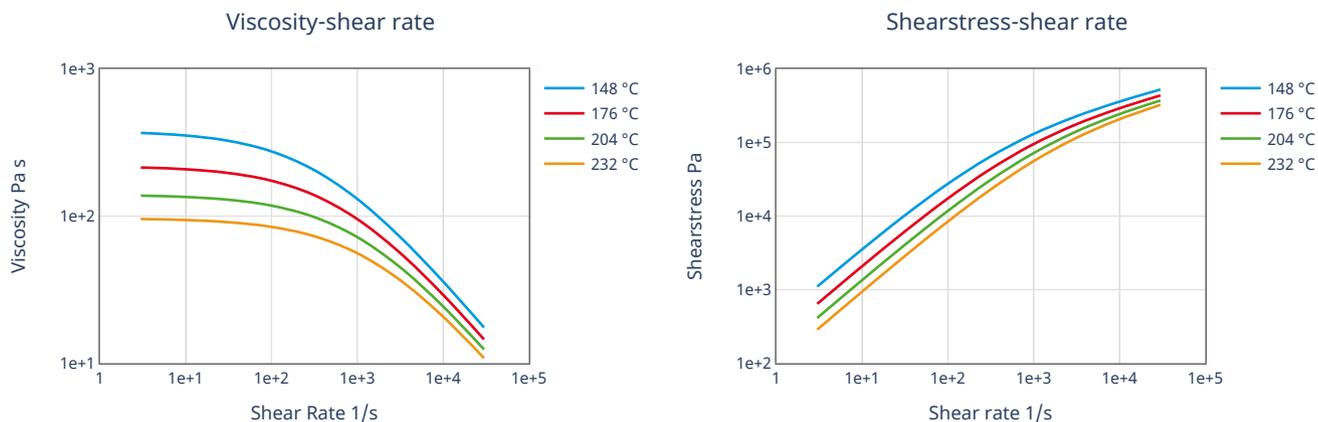
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Thermal Properties	Value	Unit	Standard
Coeff. of linear therm. expansion, parallel	152	E-6/K	ISO 11359-1/-2

Other Properties	Value	Unit	Standard
Density	925	kg/m ³	ISO 1183

Diagrams



Processing Information

Injection molding

#2

Typical processing temperature range:

Melt temperature 160 - 200 °C

Mold temperature 10- 40 °C