

Stamylex 09-258

Linear low density polyethylene

DATA SHEET

Description and Attributes

Stamylex 09-258 is a linear low density polyethylene produced in a solution polymerisation process using a Ziegler – Natta catalyst.

Characterised by good processing properties and toughness, Stamylex 09-258 is used primarily to manufacture articles with extremely long flow paths and stringent warp requirements.

Applications

A high resistance to environmental stress cracking and its dimensional stability render Stamylex 09-258 particularly suited for (domestic) applications, which require good resistance to the aggressive cleaning environment and high temperatures typically encountered, for example, in dish washing machines. Offering resistance to cold brittleness, Stamylex 09-258 is also used in freezer applications.

Polymer properties	Units	Typical values	Method
Melt Flow Rate (2.16 kg/190°C)	dg/min	24	ISO 1133
Density (23°C) [1,2]	kg/m ³	918	ISO 1183 (A)
Mechanical properties [2,3]	Units	Typical values	Method
Tensile test [5]			ISO 527/2
Stress at break [7]	MPa	7.0	
Strain at break [7]	%	135	
Tensile modulus [6]	MPa	190	
Notched Izod [9]			ISO 180/A
at + 23 °C	kJ/m ³	40	
Shore hardness D [11]		43	ISO 868
Thermal properties			
Vicat softening temperature at 10 N (VST/A)	°C	82	ISO 306
DSC melting point [13]	°C	120	DIN 53765
Enthalpy change	J/g	105	DIN 53765

[1] Specimen dimensions : 42 x 42 x 1.6 mm

[2] Compression moulding conditions of test specimen (per ISO 293) : moulding temperature 160 °C, cooling rate 40 °C/min

[3] Conditioning of test specimen : temperature 23 °C, RH 50 %, 16 hrs

[5] Test specimen as per ISO 527/2 type 1 BA, thickness 2 mm

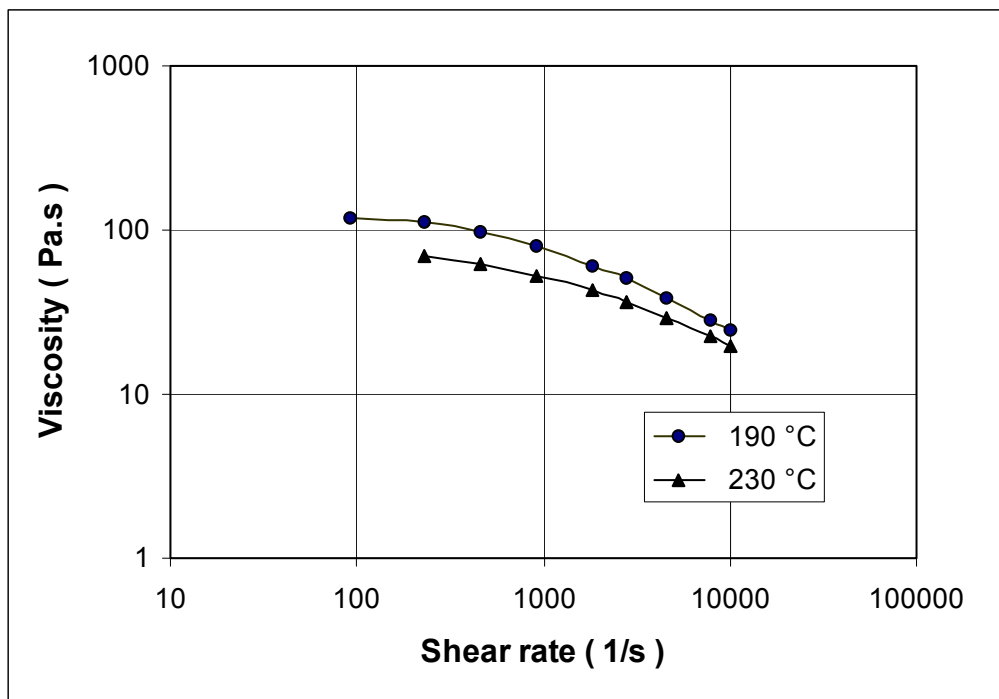
[6] Speed of testing : 1 mm/min

[7] Speed of testing : 500 mm/min

[9] Specimen dimensions : 80 x 10 x 4 mm, notch 45 °, r 0.01"

[11] After 15 seconds

[13] Top melt temperature at 10 °C/min



Food Law Compliance and Product Handling

Stamylex 09-258 complies with FDA 21 CFR 177.1520 (olefin polymers). More detailed and specific information on food law compliance and material safety aspects of Stamylex grades will be provided upon request.

Packaging

Stamylex 09-258 is supplied as free flowing pellets with standard package type 25 kg bags on shrink wrapped pallets with a total weight of 1'375 kg.

Further information

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