

# Stamylex® 2258

Low Density Polyethylene

Borealis AG

## Message:

Stamylex® 2258 is a butene based linear low density polyethylene produced in a solution polymerisation process using a Ziegler - Natta catalyst. This grade contains an additive package for thermal stabilization and a processing aid. Characterized by good processing properties and toughness, Stamylex 2258 is used primarily to manufacture articles with extremely long flow paths and stringent warp requirements. A high resistance to environmental stress cracking and its dimensional stability render Stamylex 2258 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.

General Information			
Additive	Heat Stabilizer		
	Processing Aid		
Features	Good Dimensional Stability		
	Good Processability		
	Good Thermal Stability		
	High ESCR (Stress Crack Resist.)		
	Low Density		
Uses	Consumer Applications		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.926	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	24	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	49		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	300	MPa	ISO 527-2
Tensile Stress (Break)	8.00	MPa	ISO 527-2/500
Tensile Strain (Break)	65	%	ISO 527-2/500
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact Strength (23°C)	47	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ISO 306/A
Melting Temperature	118	°C	ASTM D3418

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