PE-HD LITEN® MB 68

TECHNICAL DATASHEET

PE-HD FOR INJECTION MOULDING **MFR (190/2,16): 7,5 g/10 min**

Liten MB 68 is a high-density polyethylene produced by Unipetrol RPA using UNIPOL gas-phase technology.

Characteristics

- C6 - copolymer
- narrow MWD
- increased processing stability
- natural pellets

International designation

ISO 17855-PE-HD,M,57-D090

Application

- cartridges for adhesives
- technical parts

Material properties (typical values, do not perform a specification of given grade)

Parameter		Test method	Unit	Value
RHEOLOGICAL PROPERTIES				
Melt Mass Flow Rate (190 °C/2,16 kg)		ISO 1133-1	g/10 min	7,5
Melt Mass Flow Rate (190 °C/5 kg)			g/10 min	22
Melt Mass Flow Rate Ratio (21,6/2,16)			-	25
Shrinkage	parallel	ISO 294-3,4	%	2,29
	normal			1,95
MECHANICAL PROPERTIES				
Flexural Modulus		ISO 178	MPa	950
Tensile Modulus		ISO 527-1,2	MPa	1050
Yield Stress			MPa	23
Yield Strain			%	9,5
Tensile Creep Modulus at	1 h	ISO 899-1	MPa	485
	1000 h			275
Charpy Notched Impact Strength at	23 °C	ISO 179-1	kJ/m²	6,5
	-30 °C			5,5
THERMAL PROPERTIES				
Melting Temperature (DSC)		ISO 11357-1, 3	°C	134
Vicat Softening Temperature (VST)		ISO 306	°C	125
HDT (1,8 MPa)		ISO 75-1,2	°C	43
OTHER PROPERTIES				
Density (23±1) °C		ISO 1183-2	kg/m³	956
ESCR, F_{50} (55 °C; 6 MPa; 10%)		ISO 22088-2	h	5
Hardness Shore D		ISO 868	-	58

Processing conditions

Parameter	Recommend Value	Unit
Melt Temperature	200 - 290	°C
Mould Temperature	20 - 60	°C
Screw Length	min. 15 d*	-

* Screw diameter

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