



SABIC® LLDPE P438J

LINEAR LOW DENSITY POLYETHYLENE FOR EXTRUSION

DESCRIPTION

P438J is a medium density LLDPE natural resin and TNPP free designed for extrusion applications. This grade combines stiffness, toughness, high melt strength and low gel content coupled to excellent processability due to its tailored molecular weight distribution and flow properties. It contains an optimized level of stabilizers and is free from any slip or anti-block additives.

TYPICAL APPLICATIONS

Cylindrical and tape drip irrigation pipes. This grade is also suitable for other extrusion applications such as Medium and Low Voltage Cable Sheathing, electrical conduits, thin wall tubes and blown film extrusion.

TYPICAL PROPERTY VALUES

Revision 20230421

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
@ 190°C & 2.16 kg load	0.4	g/10 min	ASTM D1238
Density			
@ 23°C	938	kg/m³	ASTM D1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile strength			
@ Yield	19	MPa	ASTM D638
@ Break	18	MPa	ASTM D638
Tensile Elongation			
@ Yield	11	%	ASTM D638
@ Break	>600	%	ASTM D638
Hardness (Shore D)	51	-	ASTM D2240
ESCR (50°C, 10% Igepal), F0	>1000	Hrs	ASTM D1693B

(1) Typical values; not to be construed as specification limits.

(2) Based on compression molded specimens

STORAGE AND HANDLING

LLDPE resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions, which may lead to quality deterioration such as color change and inadequate product performance. It is advisable to process LLDPE resin within 6 months after delivery.

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