ALCUDIA® HDPE 51100

High Density Polyethylene

REPSOL

Message:

ALCUDIA® 51100 is a high density polyethylene with a broad bimodal molecular weight distribution designed for the extrusion of pipes. It also can be used as base polymer for identification stripes compound. This product is supplied in natural colour but they can be easily coloured with pigments steady at processing temperature, using dry-colouring or masterbatch techniques. This grade is characterized by its very good mechanical properties, excellent cracking resistance and good resistance to internal pressure.

General Information			
Features	Wide molecular weight distribution		
	Good cracking resistance		
Uses	Piping system		
Appearance	Natural color		
Processing Method	Pipeline extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.951	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	10	g/10 min	ISO 1133
190°C/5.0 kg	0.38	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal, F50)	> 10000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	38.0	MPa	ISO 527-2
Tensile Strain (Break)	> 600	%	ISO 527-2
Flexural Modulus	1100	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ISO 306/A
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 220	°C	

Recommended distributors for this material

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