

ALCUDIA® HDPE 47100

High Density (HMW) Polyethylene
REPSOL

Message:

ALCUDIA® 47100 natural compound is an hexene copolymer of high molecular weight especially apt for the extrusion of pipe. Because other good mechanical properties and their characteristics, the polyethylene natural compound ALCUDIA® 47100, is designed to produce pipe. 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

General Information			
Features	Food Contact Acceptable		
	Good Colorability		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Piping		
Appearance	Natural Color		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.945	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.11	g/10 min	
190°C/21.6 kg	10	g/10 min	
190°C/5.0 kg	0.50	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			EN 638
Yield	20.0	MPa	
Break	35.0	MPa	
Tensile Strain			EN 638
Yield	13	%	
Break	800	%	
Flexural Modulus	800	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525 ¹
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	175 to 195	°C	

Cylinder Zone 2 Temp.	180 to 200	°C
Cylinder Zone 3 Temp.	185 to 205	°C
Cylinder Zone 4 Temp.	190 to 210	°C
Cylinder Zone 5 Temp.	190 to 210	°C
Melt Temperature	195 to 215	°C

NOTE

1. Rate A (50°C/h)

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