

# TABOREX TA 1121 HD

High Density Polyethylene

SILON s.ro

## Message:

A chemically-crosslinkable HDPE compound for the production of pipes for domestic hot and cold water, under floor heating and central heating application.

TA 1121 HD is a crosslinkable compound made by Silane grafted ethylene polymer. This graft polymer constitutes together with a Masterbatch containing the crosslinking catalyst a "SIOPLAS-SYSTEM". Pipes produced with the SILON grade TA 1121 HD fulfil the requirements of ASTM F876-99a, ASTM F877-99a, CSA 137.5-99, DIN 16892 and all related standards.

This system allows the compound to be extruded as a normal thermoplastic polymer, which will attain a high level of crosslinking in the processed form. The final product has all the improved properties associated with crosslinked polyethylene.

General Information			
Features	Crosslinkable		
Uses	Piping system		
Forms	Sphere		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm <sup>3</sup>	Internal method
Apparent Density	0.54	g/cm <sup>3</sup>	Internal method
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	1.0	g/10 min	Internal method
Volatile Matter		%	Internal method
Gel Content	71	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	28.0	MPa	Internal method
Tensile Strain (Break)	470	%	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0	hr	
Cylinder Zone 1 Temp.	160 - 170	°C	
Cylinder Zone 2 Temp.	170 - 180	°C	
Cylinder Zone 3 Temp.	170 - 190	°C	
Cylinder Zone 4 Temp.	170 - 190	°C	
Die Temperature	190 - 220	°C	
Extrusion instructions			
L/D: >25Compression ratio: 3:1 to 2.5 : 1Head: 200 to 210°CScrew: 70°C to 90 °C			

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