

Kafrit PEX TA 1108 HD

Crosslinked Polyethylene

Kafrit NA Ltd.

Message:

Cross-linkable Polyethylene Compound

TA 1108 HD is for use in residential and commercial applications. TA 1108 HD is primarily used in flexible pipe intended for potable hot and cold water plumbing. It is also used extensively in radiant heating applications. Crosslinked TA 1108 HD has a combination of properties which result in tubing with excellent flexibility, superior mechanical and thermal performance, and outstanding aesthetics. TA 1108 HD is suitable for SDR 9 tubing applications in continuous service at operating conditions of 140°F (60°C) and 80 psi.

General Information			
Features	Copolymer		
	Crosslinkable		
	Good Flexibility		
Uses	Piping		
	Potable Water Applications		
	Tubing		
Agency Ratings	ASTM F 2023		
	ASTM F 2657		
	ASTM F 876		
	ASTM F 877		
	CSA B137.5-09		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.944	g/cm ³	ASTM D792
Apparent Density	0.54	g/cm ³	ASTM D1895, ISO 60
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	2.7	g/10 min	ASTM D1238
Gel Content	71	%	ASTM D2765
Moisture Content ¹	< 0.020	%	
Volatiles ²	< 0.10	%	
Head Temperature	200 to 210	°C	
Extruder Screw L/D Ratio	25.0:1.0		
Extruder Screw Compression Ratio	3.0:1.0 to 2.5:1.0		
Extruder Screw Temperature ³	70 to 90	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.0	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	154 to 177	°C
Cylinder Zone 2 Temp.	165 to 188	°C
Cylinder Zone 3 Temp.	177 to 200	°C
Cylinder Zone 4 Temp.	188 to 200	°C
Die Temperature	190 to 215	°C

NOTE		
1.	Karl Fischer titration (SIL 4.4)	
2.	SIL 4.3	
3.	Control of the screw temperature may improve processing results.	

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