

# Kafrit PEX TA 1117 HD

Crosslinked Polyethylene

Kafrit NA Ltd.

## Message:

Cross-linkable High Density Polyethylene Compound

TA 1117 HD is for use in industrial applications. Crosslinked TA 1117 HD has a beneficial combination of high density and high gel content which result in excellent chemical, abrasion and heat resistance. The properties of TA 1117 HD make it a preferred choice for oil and gas, and other aggressive industrial applications. TA 1117 HD is suitable for continuous service exposed to hydrocarbons at operating temperatures of 200°F (93°C).

General Information			
Features	Copolymer		
	Crosslinkable		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	High Density		
	High Heat Resistance		
Uses	Industrial Applications		
	Oil/Gas Applications		
	Piping		
	Profiles		
	Tubing		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.947	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.54	g/cm <sup>3</sup>	ASTM D1895, ISO 60
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	1.0	g/10 min	ASTM D1238
Gel Content	75	%	ASTM D2765
Moisture Content <sup>1</sup>	< 0.020	%	
Volatiles <sup>2</sup>	< 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 <sup>3</sup>	70 to 90	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.0	MPa	ASTM D638
Tensile Elongation (Break)	250	%	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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