

HIPLEX® TR-418 blue

Medium Density Polyethylene

HIP-PetroHemija

Message:

HIPLEX® TR-418 blue is medium density polyethylene, high molecular weight, specially designed for pressure pipe manufacture. This blue compound combines easy processing with very good mechanical properties, an excellent resistance to UV radiation and thermal ageing, and very high environmental stress cracking resistance, which gives pipes and fittings a maximum useful life.

HIPLEX® TR-418 blue is recommended for pipe extrusion and injection moulding of fittings, especially high-pressure pipe systems such as potable water pipes, industrial pipes etc.

HIPLEX TR-418 blue is classified as an MRS 8 material. It confirms different national and international standards such as ISO 4427, ISO 4437, EN 1555 and EN 12201.

General Information			
Features	Good Thermal Aging Resistance		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Fittings		
	Piping		
Agency Ratings	EC 1907/2006 (REACH)		
	EN 1555		
Appearance	Blue		
Forms	Pellets		
Processing Method	Injection Molding		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.17	g/10 min	
190°C/5.0 kg	0.90	g/10 min	
Environmental Stress-Cracking Resistance (F50)	> 2000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	19.0	MPa	ISO 527-2/50
Tensile Strain (Break)	800	%	ISO 527-2/50
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	121	°C	ISO 306/A
Thermal Stability - OIT (200°C)	> 40	min	ISO 10837
Dispersion - Pigment ¹	< 3.00		ISO 13949
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 210	°C	
NOTE			
1.	grade		

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