

HIPLEX® TR-418 yellow

Medium Density Polyethylene

HIP-PetroHemija

Message:

HIPLEX® TR-418 yellow is medium density polyethylene, high molecular weight, specially designed for pressure pipe manufacture. This yellow 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 yellow is recommended for pipe extrusion and injection moulding of fittings, especially high-pressure pipes for gas distribution systems. HIPLEX TR-418 yellow is classified under ISO TR 9080 MRS classification as PE 80.

General Information			
Features	Good Thermal Aging Resistance		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Corrugated Pipe		
	Fittings		
Agency Ratings	EC 1907/2006 (REACH)		
	ISO 9080 PE 80		
Appearance	Yellow		
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
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ISO 180
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

