



HIPLEX TR-418 yellow

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.

PROCESSING RECOMMENDATIONS:

Processing temperature: 180-210°C for extrusion

PROPERTIES:

PROPERTY	TEST METHOD	UNIT	VALUE
DENSITY	ISO 1183	kg/m ³	942
MELT FLOW RATE (190°C/2,16 kg)	ISO 1133	g/10 min	0.17
MELT FLOW RATE (190°C/5 kg)	ISO 1133	g/10 min	0.90
TENSILE STRENGTH AT YIELD (50mm/min)	ISO 527	MPa	19
ELONGATION AT BREAK (50mm/min)	ISO 527	%	800
IZOD IMPACT STRENGTH	ISO 180	J/m	no break
SHORE D HARDNESS	ISO 868	Shore D	62
VICAT SOFTENING POINT (1 kg)	ISO 306	°C	121
PIGMENT DISPERSION	ISO 13949	grade	≤ 3
THERMAL STABILITY (OIT, 200°C)	ISO 10837	min.	> 40
ESC RESISTANCE (B, F ₅₀)	ASTM D 1693	h	> 2000

APPLICATION:

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.

The values in this review are characteristic and are provided for guidance purposes only.

For any technical information about our products please mail to laboratorija@hip-petrohemija.co.yu