

HIPLEX® TR-455 natural

High Density Polyethylene

HIP-PetroHemija

Message:

HIPLEX® TR-455 natural is high density polyethylene with high molecular weight and designed for pipe manufacture. This granulate 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 a maximum useful life.

General Information			
Features	Good Heat Aging Resistance		
	Good Processability		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Recyclable Material		
Uses	Piping		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural Color		
Forms	Granules		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.50	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (F50)	5000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	22.0	MPa	
Break	30.0	MPa	
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus	900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact Strength	15	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ISO 306
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	

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Recommended distributors for this material

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