TIPELIN® 7700M

High Density Polyethylene

MOL Petrochemicals Co. Ltd.

Message:

TIPELIN 7700M is a natural, high density polyethylene copolymer (with butene-1 as comonomer) grade. The product shows excellent mechanical properties and environmental stress crack resistance (ESCR). The grade contains antioxidant and acid scavenger. TIPELIN 7700M is recommended for non-pressure pipes and sheet manufacturing. TIPELIN 7700M is suitable for food contact. The product complies with Food Contact Regulations.

General Information				
Additive	Acid Neutralizer			
	Antioxidant			
Features	Antioxidant			
	Butene Comonomer			
	Food Contact Acceptable			
	High ESCR (Stress Crack Resist.)			
	Recyclable Material			
Uses	Fittings			
	Piping			
	Sheet			
Appearance	Natural Color			
Forms	Pellets			
Processing Method	Extrusion			
	Injection Molding			
	Pipe Extrusion			
	Sheet Extrusion			
Physical	Nominal Value	Unit	Test Method	
Density	0.948	g/cm ³	ISO 1183	
Melt Mass-Flow Rate (MFR)			ISO 1133	
190°C/2.16 kg	0.060	g/10 min		
190°C/21.6 kg	8.0	g/10 min		
190°C/5.0 kg	0.26	g/10 min		
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression				
Molded, F50)	> 10000	hr	ASTM D1693B	
Hardness	Nominal Value	Unit	Test Method	
Shore Hardness (Shore D, Compression Molded)	63		ISO 868	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	25.0	MPa	
Break, Compression Molded	36.0	MPa	
Tensile Strain			ISO 527-2
Yield, Compression Molded	13	%	
Break, Compression Molded	1300	%	
Flexural Modulus (Compression Molded)	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Impact Notched Izod Impact Strength (23°C,	Nominal Value	Unit	Test Method
•	Nominal Value	Unit kJ/m²	Test Method
Notched Izod Impact Strength (23°C,			
Notched Izod Impact Strength (23°C, Compression Molded)	18	kJ/m²	ISO 180/A
Notched Izod Impact Strength (23°C, Compression Molded) Thermal	18 Nominal Value	kJ/m² Unit	ISO 180/A Test Method
Notched Izod Impact Strength (23°C, Compression Molded) Thermal Vicat Softening Temperature	18 Nominal Value	kJ/m² Unit	ISO 180/A Test Method
Notched Izod Impact Strength (23°C, Compression Molded) Thermal Vicat Softening Temperature Oxidation Induction Time - Compression	18 Nominal Value 125	kJ/m² Unit °C	ISO 180/A Test Method ISO 306/A120

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