Eltex® PF1315AZ

Metallocene Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

Additive free C6 m-LLDPE for extrusion coating, injection moulding and compounding. Benefits & Features outstanding ESCR performance improved sealing performance improved mechanical properties Applications For extrusion coating: extrusion coating polymer for high demand on sealing and mechanical performance For injection moulding and compounding:

absence of any kind of additive allowing tailor formulation of specific compounds and master-batches

General Information					
Features	Low density	Low density			
	High ESCR (Stress Cracking Resistance)				
	No additive				
Uses	Composite				
	Masterbatch				
	Coating application				
RoHS Compliance	Contact manufacturer				
Forms	Particle				
Processing Method	Composite				
	Extrusion coating				
	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Density (23°C)	0.914	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR) (190°C/2.16	45	(10) ·	100 1100		
kg)	15	g/10 min	ISO 1133		
Environmental Stress-Cracking Resistance (Compression Molded)	175	hr	Internal method		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D,					
Compression Molded)	46		ISO 868		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (Compression Molded)	217	MPa	ISO 527-2		
Tensile Stress (Yield, 23°C, Compression Molded)	0.00		ISO 527-2		
(fielded)	9.00	MPa	150 527-2		

Yield, molding22%ISO 527-2Fracture, molding> 600%ISO 527-2Molded)244MPaISO 178Tensile fracture strength-Compression MoldedNo BreakISO 527-2Heat of Fusion104J/gASTM D3418ImpactNominal ValueUnitTest MethodNotched Izod Impact (-20°C, Compression Molded)71ki/m²ISO 180/ANotched Izod Impact (-20°C, Compression Molded)71ki/m²ISO 180/ANotched Izod Impact (-20°C, Compression Molded)90.0°CISO 306/A50Noterhalt Temperature 190.0°CISO 306/A50Melting Temperature 196.0 - 114°CIso 11357-3Peak Crystallization Temperature84 - 100°CInternal methodInjectionNominal ValueUnitIso 11357-3Processing (Melt) Temp< 280°C'CExtrusionNominal ValueUnitIso 180/AMoltare Temperature< 280°C'CExtrusionNominal ValueUnitIso 180/AMelt Temperature< 280°C'CNotice'CIso 180/A'CMet Temperature< 280'CNotice'C'CNotice'C'CMet Temperature< 280'CNoter'C'CNoter'CMet Temperature< 280'CNoter'CNoter'CNoter<				
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Molded)244MPaISO 178Fensile fracture strength-Compression MoldedNo BreakISO 527-2Heat of Fusion104J/gASTM D3418ImpactNominal ValueUnitTest MethodNotched Izod Impact (-20°C, Compression Molded)71K/m²ISO 180/ANottinal YalueUnitTest MethodNotched Izod Impact (-20°C, Compression Molded)71VinitSto 180/ANotched Izod Impact (-20°C, Compression Molded)71VinitTest MethodNotched Izod Impact (-20°C, Compression Molded)90.0°CSto 180/AVicat Softening Temperature90.0°CISO 306/AS0Vicat Softening Temperature 190.0°CISO 11357-3Peak Crystallization Temperature84-100°CInternal methodInjectionNominal ValueUnitIso 180/AProcessing (Melt) Temp<280	Fracture, molding	> 600	%	ISO 527-2
Tensile fracture strength-Compression MoldedNo BreakISO 527-2Heat of Fusion104J/gASTM D3418ImpactNominal ValueUnitTest MethodNotched Izod Impact (-20°C, Compression Molded)71k/m²ISO 180/AThermalNominal ValueUnitTest MethodVicat Softening Temperature90.0°CISO 306/A50Melting Temperature 196.0 - 114°CISO 11357-3Peak Crystallization Temperature84 - 100°CInternal methodInjectionNominal ValueUnit	Flexural Modulus (23°C, Compression			
MoldedNo BreakISO 527-2Heat of Fusion104J/gASTM D3418ImpactNominal ValueUnitTest MethodNotched Izod Impact (-20°C, Compression Molded)71Ki/m²ISO 180/AThermalNominal ValueUnitTest MethodVicat Softening Temperature90.0°CISO 306/AS0Melting Temperature 196.0 - 114°CISO 11357-3Peak Crystallization Temperature84 - 100°CInternal methodInjectionNominal ValueUnitTest MethodProcessing (Melt) Temp< 280	Molded)	244	MPa	ISO 178
Heat of Fusion104J/gASTM D3418ImpactNominal ValueUnitTest MethodNotched Izod Impact (-20°C, Compression Molded)71kJ/m²ISO 180/AThermalNominal ValueUnitTest MethodVicat Softening Temperature90.0°CISO 306/A50Melting Temperature 196.0 - 114°CISO 11357-3Peak Crystallization Temperature84 - 100°CInternal methodInjectionNominal ValueUnit-Processing (Melt) Temp< 280	Tensile fracture strength-Compression			
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Molded)71kJ/m²ISO 180/AThermalNominal ValueUnitTest MethodVicat Softening Temperature90.0°CISO 306/A50Melting Temperature 196.0 - 114°CISO 11357-3Peak Crystallization Temperature84 - 100°CInternal methodInjectionNominal ValueUnit-Processing (Melt) Temp<280	Impact	Nominal Value	Unit	Test Method
ThermalNominal ValueUnitTest MethodVicat Softening Temperature90.0°CISO 306/A50Melting Temperature 196.0 - 114°CISO 11357-3Peak Crystallization Temperature84 - 100°CInternal methodInjectionNominal ValueUnit	Notched Izod Impact (-20°C, Compression			
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Melting Temperature 196.0 - 114°CISO 11357-3Peak Crystallization Temperature84 - 100°CInternal methodInjectionNominal ValueUnitCProcessing (Melt) Temp< 280	Thermal	Nominal Value	Unit	Test Method
Peak Crystallization Temperature84 - 100°CInternal methodInjectionNominal ValueUnitCProcessing (Melt) Temp< 280	Vicat Softening Temperature	90.0	°C	ISO 306/A50
InjectionNominal ValueUnitProcessing (Melt) Temp< 280	Melting Temperature ¹	96.0 - 114	°C	ISO 11357-3
Processing (Melt) Temp< 280°CExtrusionNominal ValueUnitMelt Temperature< 280°CNOTE·C	Peak Crystallization Temperature	84 - 100	°C	Internal method
Extrusion Nominal Value Unit Melt Temperature < 280	Injection	Nominal Value	Unit	
Melt Temperature < 280	Processing (Melt) Temp	< 280	°C	
NOTE	Extrusion	Nominal Value	Unit	
	Melt Temperature	< 280	°C	
1 DSC 2nd heating 10°C/min	NOTE			
	1.	DSC 2nd heating 10°C/min		

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