Flexathene® PD907

Polyolefin

LyondellBasell Industries

Message:

FLEXATHENE PD 907 is a thermoplastic olefin (TPO) formulated for extrusion and thermoforming applications. PD 907 has an excellent balance of cold temperature impact resistance and stiffness. PD 907 is specially formulated for high melt strength, excellent dimensional stability and for use with paint film lamination. This product is readily reprocessed with minimal changes to processing characteristics or physical properties.

General Information					
Features	Good Dimensional Stability				
	Good Melt Strength				
	High Stiffness				
	Low Temperature Impact Resistance				
Uses	Film				
	Laminates				
Forms	Pellets				
Processing Method	Extrusion				
	Thermoforming				
Physical	Nominal Value	Unit	Test Method		
Density					
	0.967	g/cm³	ISO 1183/A		
	0.976	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR)					
230°C/2.16 kg	2.1	g/10 min	ASTM D1238		
230°C/2.16 kg ¹	2.1	g/10 min	ISO 1133		
Molding Shrinkage	0.89 to 1.2	%	ISO 294-4		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus - Secant	1320	MPa	ISO 527-2		
Tensile Strength					
Yield	17.2	MPa	ASTM D638		
Yield	17.0	MPa	ISO 527-2		
Tensile Elongation (Yield)	14	%	ASTM D638		
Flexural Modulus					
Tangent ²	896	MPa	ASTM D790B		
Secant	956	MPa	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact			ASTM D256		
-30°C	430	J/m			

-18°C	No Break		
Unnotched Izod Impact (-30°C)	No Break		ASTM D4812
Instrumented Dart Impact ³			ASTM D3763
-30°C, Energy to Peak Load, Ductile			
Failure	25.0	J	
23°C, Energy to Peak Load, Ductile			
Failure	18.0	J	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM E831
CLTE - Flow Extrusion	6.8E-5 Nominal Value	cm/cm/°C Unit	ASTM E831
			ASTM E831
Extrusion	Nominal Value	Unit	ASTM E831
Extrusion Melt Temperature	Nominal Value	Unit	ASTM E831
Extrusion Melt Temperature NOTE	Nominal Value 188 to 227	Unit	ASTM E831

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