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
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	188 to 227	°C	
NOTE			
1.	Procedure A		
2.	1.3 mm/min		
3.	2.20 m/sec		

Recommended distributors for this material

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