

# Flexathene® TP4346HS

Polyolefin

LyondellBasell Industries

## Message:

FLEXATHENE TP 4346-HS, formerly known as PD 765, is a high stiffness, paintable thermoplastic polyolefin (TPO) specially formulated for thin-wall automotive exterior applications requiring a balance of high impact resistance especially at cold temperatures.

General Information			
Features	Rigidity, high		
	Impact resistance, high		
	Sprayable		
	Low temperature impact resistance		
Uses	Thin wall parts		
	Automotive exterior parts		
	Car exterior decoration		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	17	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13.0	MPa	ASTM D638
Tensile Elongation (Yield)	4.8	%	ASTM D638
Flexural Modulus			
1% secant <sup>1</sup>	1030	MPa	ASTM D790B
Tangent	1080	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-18°C	53	J/m	ASTM D256
23°C	640	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-30°C	40.7	J	ASTM D3763
-18°C	42.0	J	ASTM D3763
Dart Drop Impact (-18°C)	45.2	J	ASTM D3029
Additional Information			
Multi-axial Impact at Max load, ASTM D3763, -18°C: 698 lbsMulti-axial Impact at Failure Mode, ASTM D3763, -18°C: DuctileMulti-axial Impact at Max load, ASTM D3763, -30°C: 659 lbsMulti-axial Impact at Failure Mode, ASTM D3763, -30°C: DuctilePaint Retention, GM9071P Method A, Cross Hatch Tape: 100 %			

Injection	Nominal Value	Unit
Processing (Melt) Temp	221 - 243	°C
NOTE		
1.	1.3 mm/min	

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