

# Flexathene® TP39NC01

Polyolefin

LyondellBasell Industries

## Message:

FLEXATHENE TP 39NC01 is an extrusion grade TPO with medium stiffness and high impact resistance, especially at cold temperatures. TP 39NC01 has very good melt strength making it a good choice for thermoforming and blow molding. This product provides a balance of high impact resistance, stiffness, and melt strength.

General Information			
Features	Rigid, good		
	Impact resistance, high		
	Good melt strength		
	Low temperature impact resistance		
Uses	Sheet		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	26.9	MPa	ASTM D638
Flexural Modulus - 1% Secant <sup>1</sup>	1340	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-18°C	110	J/m	ASTM D256
23°C	No Break		ASTM D256
Unnotched Izod Impact (-18°C)	No Break		ASTM D256
Instrumented Dart Impact <sup>2</sup> (-30°C, Total Energy)	47.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	32.2	°C	ASTM D648
Additional Information			
Multi-axial Impact at Max load, ASTM D3763, -30°C, 2.2 m/s: 790 lbs			
Extrusion	Nominal Value	Unit	

Melt Temperature	199 - 232	°C
Extrusion instructions		
Blow Molding Melt Temperature: 380 to 420°F (193 to 216°C)		
NOTE		
1.	1.3 mm/min	
2.	2.20 m/sec	

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

