

# Flexathene® TP4390HU

Polyolefin  
LyondellBasell Industries

**Message:**

FLEXATHENE TP4390HU is a reactor thermoplastic polyolefin (TPO), polypropylene-ethylene copolymer designed for injection molding and compounding applications. This material combines a high melt flow rate with good impact properties. TP4390HU exhibits good processability, excellent impact properties and resistance to chemical attack over a wide temperature range.

General Information			
Additive	Heat Stabilizer		
Features	Copolymer		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Processability		
	Heat Stabilized		
	High Flow		
Uses	Compounding		
Forms	Pellets		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	19.3	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus	862	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	75	J/m	
-18°C	120	J/m	
23°C	No Break		
Unnotched Izod Impact			
-30°C	1900	J/m	ASTM D256
-18°C	No Break		
Instrumented Dart Impact (-30°C, Total Energy)			
44.7	J		ASTM D3763

Gardner Impact (-30°C)	48.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	66.1	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	204 to 232	°C	

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#### Recommended distributors for this material

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