

# Flexathene® TP4308HR

Polyolefin

LyondellBasell Industries

## Message:

FLEXATHENE TP 4308-HR is a Thermoplastic Polyolefin (TPO) formulated for compounding and injection molding applications that require medium stiffness and excellent cold temperature impact resistance. TP 4308-HR is specially formulated for paintable applications and meets the GMP.E/P.023 specification. TP 4308-HR is produced in a proprietary gas-phase process, which yields a product with greater resistance to mechanical and thermal degradation and more uniform dispersion than melt-blended rubber compounds. This product is readily reprocessable with minimal changes to processing characteristics or physical properties. This product is also available in UV stable grades.

General Information			
Features	Good Stiffness		
	Low Temperature Impact Resistance		
	Paintable		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.895	g/cm <sup>3</sup>	ISO 1183/A, ASTM D1505
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	9.5	g/10 min	ASTM D1238
230°C/2.16 kg <sup>1</sup>	9.5	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
121°C, 1 hr	1.4 to 1.9	%	
24 hr	1.4 to 1.6	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	778	MPa	ISO 527-2
Tensile Strength			
Yield <sup>2</sup>	15.9	MPa	ASTM D638
Yield	15.8	MPa	ISO 527-2
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus			
1% Secant <sup>3</sup>	572	MPa	ASTM D790B
Tangent	630	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	69	J/m	
-18°C	110	J/m	
23°C	No Break		

Unnotched Izod Impact (-18°C)	No Break		ASTM D256
Instrumented Dart Impact <sup>4</sup>			ASTM D3763
-40°C, Energy to Peak Load	26.0	J	
23°C, Energy to Peak Load	15.5	J	
Gardner Impact (-30°C)	45.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	63.9	°C	ASTM D648
Brittleness Temperature	-46.1	°C	ASTM D746
CLTE - Flow	9.9E-5	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 232	°C	
NOTE			
1.	Procedure A		
2.	13 mm/min		
3.	1.3 mm/min		
4.	2.20 m/sec		

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