

Flexathene® TP4311HC

Polyolefin
LyondellBasell Industries

Message:

FLEXATHENE TP 4311-HC is a Thermoplastic Polyolefin (TPO) formulated for extrusion and blow molding applications that require medium stiffness and excellent impact strength . TP 4311-HC is produced in a proprietary gas-phase process that 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.

General Information	
Features	Food Contact Acceptable
	Good Stiffness
	High Impact Resistance
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blow Molding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	20.7	MPa	ASTM D638
Flexural Modulus	655	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	91	J/m	
-18°C	No Break		
23°C	No Break		
Unnotched Izod Impact (-18°C)	No Break		ASTM D256
Gardner Impact (-30°C)	55.4	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	65.0	°C	ASTM D648
Brittleness Temperature	-52.8	°C	ASTM D746
Extrusion	Nominal Value	Unit	
Melt Temperature	193 to 277	°C	

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