

Rigidex® HM5420XPH

High Density (HMW) Polyethylene

INEOS Olefins & Polymers Europe

Message:

RIGIDEX® HM5420XPH is a high molecular weight grade with enhanced impact strength, supplied as a specially stabilised pellet for use in large blow moulding.

Benefits & Features

Extremely high impact strength

High melt strength

High environmental stress crack resistance

Excellent rigidity

Very good heat stabilization

Applications

Large blow moulded articles requiring high stiffness and exceptional toughness including UN and RID/ADR approved containers for the packaging of dangerous goods

General Information			
Features	Ultra-high impact resistance		
	Rigidity, high		
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	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	High density		
	Good melt strength		
	Thermal stability, good		
	Good toughness		
Uses	Blown Containers		
	Blow molding applications		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.953	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	2.1	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 10% Igepal)	100	hr	ASTM D1693A
FNCT - 9 MPa (50°C)	10.0	hr	ISO 16770
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	28.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	> 600	%	ISO 527-2/50
Flexural Modulus (23°C)	1300	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-30°C, local fracture)	> 50	kJ/m ²	ISO 179

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