Rigidex® HD5802BM-R

High Density (MMW) Polyethylene

INEOS Olefins & Polymers Europe

Message:

Polyethylene bimodal medium molecular weight copolymer
Benefits & Features
RIGIDEX® HD5802BM-R is a new bimodal medium molecular weight copolymer grade supplied in pellet form. It has an outstanding stiffness and environmental stress crack resistance (ESCR) balance making it ideal for use in a wide range of blow moulding applications. The grade is particularly well suited to chemical and detergent packaging as the exceptional ESCR can allow for significant bottle weight reduction.
High rigidity
Outstanding environmental stress cracking resistance
High impact strength
Easy processing
Applications
Blow moulded containers up to 10 liters capacity for packaging chemicals, many household products, oils and foodstuffs
Sheet extrusion

General Information	
Features	Rigidity, high Rigidity, high High ESCR (Stress Cracking Resistance) High density Copolymer Impact resistance, high Workability, good Medium molecular weight
Uses	Blown Containers Packaging Sheet
RoHS Compliance	Contact manufacturer
Forms	Particle
Processing Method	Blow molding Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.957	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, BTT, F50)	> 200	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (Yield, 23°C)	27.0	MPa	ISO 527-2/2

Tensile Strain [2] (Break, 23°C)	> 300	%	ISO 527-2/2
Flexural Modulus [3] (23°C)	1150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m^2	ISO 179
NOTE			
1.	Speed D		
2.	Speed D		
3.	100 mm/min		

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