Rigidex® HD4820EA

High Density (MMW) Polyethylene

INEOS Olefins & Polymers Europe

Message:

Rigidex® HD4820EA is a medium molecular weight high gloss copolymer high density polyethylene. It has been formulated to give excellent bottle gloss/surface finish using conventional blow moulding equipment without the use of masterbatches.
Typical applications
Blow moulded bottles with capacities of up to 1 litre
Benefits and Features
Excellent gloss
Easy processing
Good rigidity
Environmental stress crack resistance
Good impact strength

General Information			
Features	Copolymer		
	Good Impact Resistance		
	Good Processability		
	Good Surface Finish		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	Medium Molecular Weight		
	Medium Rigidity		
Uses	Bottles		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.952	g/cm³	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, BTT, F50)	35.0	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (Yield, 23°C)	25.0	MPa	ISO 527-2/2
Tensile Strain [2] (Break, 23°C)	> 300	%	ISO 527-2/2
Flexural Modulus [3] (23°C)	950	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	7.0	kJ/m²	ISO 179
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Bottle Stress Crack Resistance (60°C)	5.0	hr	Internal Method

NOTE	
1.	Speed D
2.	Speed D
3.	100 mm/min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China