

Eltex® HD3850UA

Linear Medium Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

Eltex® HD3850UA is a linear medium density polyethylene grade, supplied in pellet form for use as a rotational moulding grade. It has been specifically formulated to meet the UV resistance requirements of the EN13341 standard (10700 hours).

Benefits & Features

- Good impact strength
- Good environmental stress cracking resistance
- Excellent external and internal surface finish
- Easy to demould
- Enhanced level of UV stability

Applications

- Rotational moulded items with good stiffness
- Septic tanks
- Recycling banks

General Information			
Features	Good Impact Resistance		
	Good Mold Release		
	Good Stiffness		
	Good Surface Finish		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	Medium Density		
Uses	Recycling Banks		
	Septic Tanks		
Agency Ratings	EN 13341		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	750	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	19.0	MPa	ISO 527-2/1BA

Tensile Strain (Break, 23°C, 8.00 mm, Rotational Molded)	> 100	%	ISO 527-2/1B/50
Flexural Modulus (23°C)	750	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	80	kJ/m ²	ISO 179/1eB
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B
Vicat Softening Temperature	117	°C	ISO 306/A50
Melting Temperature ¹	127	°C	ISO 11357-3
Specific Heat	2300	J/kg/°C	
Thermal Conductivity	0.48	W/m/K	ASTM C177
NOTE			
1.	10°C/min		

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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

