Rigidex® HD6070UA

High Density Polyethylene

INEOS Olefins & Polymers Europe

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Technical Data

Product Description

Rigidex® HD6070UA is a UV-stabilised high density polyethylene grade with a narrow molecular weight distribution, suitable for a wide range of injection moulding applications.

Typical applications

- Crates
- Boxes
- Seats
- Pallets

Benefits and Features

- Easy processing
- High rigidity
- Good impact strength
- High warpage resistance
- Good weathering resistance

General

Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet (English)		
Search for UL Yellow Card	• INEOS Olefins & Polymers Europe		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good Impact Resistance • Good Processability • Good Weather Resistance	• High Density • High Rigidity • Narrow Molecular Weight Distribution	• UV Resistant • Warp Resistant
Uses	• Crates	• Pallets	• Seats
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm³	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.6	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [3] (Yield, 23°C)	31.0	MPa	ISO 527-2/2
Flexural Modulus (23°C)	1300	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	4.0	kJ/m²	ISO 179
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	68		ISO 868
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature	132	°C	ASTM D2117
CLTE - Flow	2.0E-4	cm/cm/°C	ASTM D696
Specific Heat	2300	J/kg/°C	
Thermal Conductivity	0.48	W/m/K	ASTM C177

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Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

[3] Speed D

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