

Rigidex® HD6070UA

High Density Polyethylene
INEOS Olefins & Polymers Europe

Message:

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 Information			
Additive	UV Stabilizer		
Features	Good Impact Resistance		
	Good Processability		
	Good UV Resistance		
	Good Weather Resistance		
	High Density		
	High Rigidity		
	Narrow Molecular Weight Distribution		
	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/cm ³	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.6	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹ (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/m ²	ISO 179
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
NOTE			

1. Speed D

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