

Rigidex® P 451-HP40

Polypropylene Copolymer
INEOS Olefins & Polymers Europe

Message:

RIGIDEX® P 451-HP40 has been designed specifically for the ultra-fast injection moulding of large food and paint containers (5-20ltr) where the demands for high productivity with high product performance are paramount. RIGIDEX® P 451-HP40 is a very high melt flow, high impact and high stiffness block copolymer, that offers moulders an opportunity to significantly reduce cycle time, reduce wall thickness and increase product performance in use.

- Benefits & Features
- Fast cycling (high MFR and nucleated)
 - High impact
 - High stiffness
 - Antistatic
 - FDA compliant
 - Very good dimensional and thermal stability
- Applications
- Food and paint containers
 - Technical closures
 - Automotive and appliance components
 - Housewares

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Block Copolymer		
	Fast Molding Cycle		
	Good Dimensional Stability		
	Good Thermal Stability		
	High Flow		
	High Impact Resistance		
	High Stiffness		
	Nucleated		
Uses	Appliance Components		
	Automotive Applications		
	Closures		
	Containers		
	Food Containers		
	Household Goods		
Agency Ratings	FDA Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (23°C)	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-20°C	4.5	kJ/m ²	
23°C	8.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	103	°C	ISO 75-2/B

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