



RIGIDEX® P 451-HP40

Product Technical Information

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

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	230°C/2.16Kg	ISO 1133-1	40	g/10min
Mechanical				
Flexural Modulus	23°C	ISO 178	1350	MPa
Izod Impact Strength, notched	23°C	ISO 180/A	8	kJ/m ²
Izod Impact Strength, notched	-20°C	ISO 180/A	4.5	kJ/m ²
Thermal				
Heat Deflection Temperature	0.45 MPa	ISO 75-2	103	°C

Data should not be used for specification work

Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration. It is advised to process the product within maximum one year after delivery.