TECHNICAL DATA SHEET
REV20240610

1140VC

Polypropylene Homopolymer / Thin wall Injection Molding (TWIM)

PRO-EFFICIENT
Ingredient Mark established new performance and efficiency benchmarks.

1140VC
The high stiffness conventional homopolymer with high heat stability, fast cycle time and dimension stability in the **DURA-PRO & ECO-PRO** line

PRODUCT DESCRIPTION

1140VC is a Polypropylene Homopolymer with the characteristic of high melt flow rate and high stiffness. It is specifically designed for production of long path and thin wall injection molding process.

VALIDATED
MILLIKEN HYPERFORM ® HPN™ PRODUCTS ENABLE 5% TO 8% ENERGY SAVINGS WHEN USED AS A NUCLEATOR FOR PRODUCTION OF THIN-WALL INJECTION MOLDED CONTAINER LIDS OR SIMILAR POLYPROPYLENE PRODUCTS
UL.COM/ECV

INDUSTRY

- Thinwall packaging
- Long path food containers
- Housewares
- Complex parts

PRODUCT FEATURE

- High flow ability
- High speed injection molding
- High transparency thin wall
- Dimension stability

REGULATION COMPLIANCE

- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- Halal Certificate

PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Melt Flow Rate (230°C/2.16 kg)	ASTM D 1238	g/10 min	75
Density (23°C)	ASTM D 792	g/cm³	0.90
Mold Shrinkage	IRPC	%	1.5 - 1.8
MECHANICAL PROPERTY			
Tensile Strength at Yield (3.2 mm, 50 mm/min)	ASTM D 638	MPa	39
Elongation at Yield (3.2 mm, 50 mm/min)	ASTM D 638	%	9
Flexural Modulus (1% Secant, 3.2 mm, 1.3 mm/min)	ASTM D 790	MPa	1,750
Izod Notched Impact Strength (3.2 mm, 23°C)	ASTM D 256	J/m	25
HARDNESS PROPERTY			
Rockwell Hardness (3.2 mm)	ASTM D 785	R Scale	109
THERMAL PROPERTY (Unannealed)			
Heat Distortion Temperature (3.2 mm, 0.455 MPa)	ASTM D 648	°C	120
OPTICAL PROPERTY			
Haze (1 mm)	ASTM D 1003	%	40

Conversion (1 MPa = 10.2 kgf/cm^2 | 1 J/m = 0.1 kgf-cm/cm)

Remark: The values presented above are typical laboratory, not to be construed as specifications and may vary within moderate ranges. The applicability or accuracy of this information or the suitability of our products cannot be guaranteed because users' conditions of use are beyond our control.

POLIMAXX

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PROCESSING TECHNIQUE

Cylinder Temperature	190 - 230 °C
Mold Temperature	50 - 80 °C
Injection Pressure	30 - 80 % of maximum pressure
Holding Pressure	Relative to injection pressure
Back Pressure	0 - 20 % of maximum pressure
Injection Speed	Low to medium of maximum speed

However, the actual processing conditions depend on mold design, power of machine, equipment and other environments.

PRODUCT PACKAGING

- 25 kg loose bag
- 25 kg stretch wrap on palletized
- 750 kg Jumbo bag

For further information, contact IRPC's Sales representative.

STORAGE

The resin should be stored in a dry location with good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Resin should be protected from direct sunlight, temperatures above 38°C (100°F) and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time. The container should be kept closed to prevent contamination. For the additional recommended storage conditions, please refer to SDS.

SAFETY

This product is not classified as hazardous material for more information please refer to safety data sheet.

RECYCLING

It is an undisputed fact that the product can be recycled or disposed of without any problem.

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