POLIMAXX 3340HMD

IRPC Public Company Limited - *Polypropylene Random Copolymer*

General Information

Product Description

3340HMD is a Medical Grade Polypropylene Random Copolymer (RCPP) with the characteristic of high transparency and high impact resistance. It is designed for extrusion blow molding (EBM) processing.

Industry:

- Medical Devices
- IV bottles
- Saline bottles
- Medical bottles

Product Feature:

- Medical grade
- High Transparency
- High Gloss
- High Impact Resistance
- Improved color shade without Optical Brightener (OB Free)
- Ethylene oxide/Autoclave sterilization

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
- USP Class VI
- EP 3.1.6

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Autoclave Sterilizable • Ethylene Oxide Sterilizable • Food Contact Acceptable	• High Clarity • High Gloss • High Impact Resistance	• Odorless • Random Copolymer
Uses	• Bottles	• Medical/Healthcare Applications	
Agency Ratings	• EC 1907/2006 (REACH) • EP Monograph 3.1.6	• EU 2011/65/EC • EU No 10/2011	• FDA 21 CFR 177.1520 • USP Class VI
RoHS Compliance	• RoHS Compliant		
Processing Method	• Extrusion Blow Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity [2]	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage	1.2 to 1.7	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield, 0.126 in)	3920	psi	ASTM D638
Tensile Elongation [3] (Yield, 0.126 in)	13	%	ASTM D638
Flexural Modulus - 1% Secant [4] (0.126 in)	123000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.126 in)	4.7	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**

Rockwell Hardness (R-Scale, 0.126 in)	84		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	181	°F	ASTM D648
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze (39.37 mil)	8.00	%	ASTM D1003

Processing Information

Extrusion	**Nominal Value**	**Unit**
Cylinder Zone 1 Temp.	356 to 392	°F
Cylinder Zone 2 Temp.	356 to 392	°F
Cylinder Zone 3 Temp.	356 to 392	°F
Cylinder Zone 4 Temp.	356 to 392	°F
Die Temperature	374 to 392	°F

Notes

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

[2] 23°C

[3] 2.0 in/min

[4] 0.051 in/min