

R1760

High Density Polyethylene (HDPE) / Injection Molding

PRODUCT DESCRIPTION

R1760 is a High Density Polyethylene (HDPE) with the characteristic of high impact strength, excellent surface appearance and good rigidity contain UV stabilizer additive. It is designed for injection molding processing such as caps & closures, container, pail and housewares.

INDUSTRY

- Caps and Closures
- Container and Pail
- Housewares

PRODUCT FEATURE

- Weathering performance
- High impact strength
- Good Rigidity

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

PHYSICAL PROPERTY		TEST METHOD		UNIT	VALUE
Melt Flow Rate (190°C/2.16 kg)		ASTM D 1238		g/10 min	6
Melt Flow Rate (190°C/5 kg)		ASTM D 1238		g/10 min	17.5
Density (23°C)		ASTM D 792		g/cm ³	0.957
Mold Shrinkage		IRPC		%	1.3 - 2.8
MECHANICAL PROPERTY					
Tensile Strength at Yield (1 mm, 50	mm/min, type IV)	ASTM D 638		МРа	29.5
Tensile Strength at Break (1 mm, 50	0 mm/min, type IV) ASTM D 638		MPa	15
Elongation at Break (1 mm, 50 mm,	/min, type IV)	ASTM D 638		%	1,000
Charpy Notched Impact Strength (4 mm, 23°C)	DIN 53453		mJ/mm ²	3
HARDNESS PROPERTY					
Hardness Shore D (4 mm)		DIN 53505		Shore D	62
THERMAL PROPERTY *Condition B, F50					
Vicat Softening Temperature (4 mr	n, 10 N, 50 °C)/h)	ASTM D 1525		°C	122
Environmental Stress Cracking Res	sistance (ESCR)*	ASTM D 1693		Hours	9

Conversion (1 MP α = 10.2 kgf/cm 2 | 1 J/m = 0.1 kgf·cm/cm 2

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. (Specimen prepared by the IRPC's laboratory with compression process).





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PROCESSING TECHNIQUE

Cylinder Temperature 190 - 240 °C Mold Temperature 50 - 80 °C

Injection Pressure
Holding Pressure
Back Pressure
Injection Speed

30 - 80% of maximum pressure
Relative to injection pressure
0 - 20% of maximum pressure
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

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.

DISCLIAMER

The data indicated above are the results of IRPC's examinations, knowledge and correspond to the state of the art as of the date of publication and the data refers to the state of the related laws and regulations as of the date of suss. This information will expire a ferr a break in delivery lasting more than 12 (twelvely months or in case of regulatory changes. This statement's provided and subjected to IRPC's terms and conditions and IRPC reserves the right, in its odd eldersetion, to amend the product specification(s) at any time. This "Statement" is not intended and shall not be construed as specification, warranty, expressed or implied, or representation of any kind that IRPC would have any legal responsibility or liability. The applicability, accuracy, completeness, reliability, usolidity, usolidity, waildity with respect to the data or information under this Statement and/or the suitability of IRPC's products cannot be guaranteed for any purpose. IRPC gives no guarantees or makes no warranties of any kind, express or implied, including, but not limited to, any warranties of merchantobility, satisfactory quality, non-infringement or fitness for a particular purpose, whether arising by operation of law or otherwise. In the case that IRPC's products are used in combination with other materials, no liability admitted. When not utilized in combination with any third-party products, the information mentioned above refers only to IRPC's products. It is the customer's responsibility to inspect and test IRPC's products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer shall be responsible for the appropriate, safe and legal use, processing and handling of IRPC's products. IRPC shall not be liable for any false, inaccurate, inappropriate or incomplete data or information presented on this Statemennt. Please do not hesitate to ask IRPC for new information if needed. All terms and conditions regarding the supply of IRPC's products shall be subjected

