

High Density Polyethylene JV060U

Description:

JV060U is a High Density Polyethylene, narrow molecular weight butene-1 copolymer, injection molding grade, designed to achieve high stiffness, dimensional stability, mechanical strength and high impact resistance at low temperatures. It also presents good processability. It contains antioxidants and UV stabilizer additives.

Application:

Caps, crates for industrial, transportation or fishing uses, buckets, stands and pallets, trash containers, bottle cases, safety helmets, cages for poultry transportation and sporting goods.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	7.0
Density	D 792	g/cm ³	0.957

Typical Properties:
Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	28
Flexural Modulus – 1% Secant	D 790	MPa	1360
Shore D Hardness	D 2240	-	65
Notched Izod Impact Strength	D 256	J/m	36
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	10
Environmental Stress Cracking Resistance ^c	D 1693	h/F50	15
Vicat Softening Temperature at 10 N	D 1525	°C	125
Deflection Temperature under Load at 0.455 MPa	D 648	°C	71

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.

(b) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 10% Igepal. 50°C.

(c) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 100% Igepal. 50°C.

Recommended Processing Conditions:

JV060U has been developed for injection molding under conditions comparable to High Density Polyethylene of similar Melt Flow Index.

Recommended temperature profile: 160 to 230°C.

Final Remarks:

- This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA
- The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
- In some applications, Braskem has developed tailor-made resins to reach specific requirements.
- In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
- For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25087-34-7.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.
- Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.
- Braskem polyolefin products do not have additives with metals or other substances on purpose of oxidodegradation. These additives and the decomposition and disintegration of polyolefins caused by oxidodegradation phenomenon can cause environmental pollution, decrease the package performance and increase migration of package constituent to food, compromising resin approval regarding the requirements of Anvisa Resolution 105/99. The use of these additives with Braskem polyolefin products implies immediate loss of performance guarantee described in this data sheet.
- The content of this Data Sheet replaces previous revisions published for this product.