



🧈 0212 659 26 01-02 🌐 www.pakrokimya.com.tr

0212 659 26 03 Info@pakrokimya.com.tr

lyondellbasell



Hyperzone HY55430 (Preliminary Data Sheet)

High Density Polyethylene

Product Description

Hyperzone HY55430 is a high density polyethylene resin that exhibits excellent processability and environmental stress crack resistance. Typical applications include bottles for household chemicals, food products, and personal care products.

Regulatory Status

For regulatory compliance information, see Hyperzone HY55430 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS). To obtain copies of these documents, please contact your LyondellBasell product safety representative.

Developmental Status

Asia-Pacific; Europe; North America Availability

Application **Bottles For Consumer Goods**

Market Rigid Packaging

Processing Method Extrusion Blow Molding

Excellent ESCR (Environmental Stress Cracking Resistance); Excellent Attribute

Processability

| | | Nominal | English | Nominal | SI | |
|---|--------------------|---------|-----------|---------|----------|-------------|
| Typical Properties | | Value | Units | Value | Units | Test Method |
| Physical | | | " | | | 1 |
| Melt Flow Rate, (190 °C/2.16 kg) | | 0.30 | g/10 min | 0.30 | g/10 min | ASTM D1238 |
| Density, (23 °C) | | 0.954 | g/cm³ | 0.954 | g/cm³ | ASTM D1505 |
| Mechanical | , | | | | | |
| Flexural Modulus, (1% Sec | ant) | 190000 | psi | 1310 | MPa | ASTM D790 |
| Tensile Strength at Yield | | 4000 | psi | 27.6 | MPa | ASTM D638 |
| Tensile Elongation at Break | | >1000 | % | >1000 | % | ASTM D638 |
| Environmental Stress Crack (100% Igepal®, Cond B) | k Resistance, F₅o | 200 | hr | 200 | hr | ASTM D1693 |
| Impact | | | | | | |
| Tensile Impact Strength | | 140 | ft-lb/in² | 294 | kJ/m² | ASTM D1822 |
| Hardness | | | | | | |
| Shore Hardness, (Shore D) | | 68 | | 68 | | ASTM D2240 |
| Thermal | | | | | | |
| Vicat Softening Temperatur | е | 259 | °F | 126 | °C | ASTM D1525 |
| Low Temperature Brittleness, F₅₀ | | <-105 | °F | <-76 | °C | ASTM D746 |
| Deflection Temperature Un Unannealed) | der Load, (66 psi, | 151 | °F | 66 | °C | ASTM D648 |

Page 1 of 2

Notes

Igepal® is a registered trademark of Rhodia.

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.