

Technical Data Sheet

*Adstif*HA840R



High Crystallinity Polypropylene

Product Description

*Adstif*HA840R is a nucleated homopolymer which features very high crystallinity, outstanding rigidity and high gloss.

*Adstif*HA840R is selected by customers for the production of stiff injection moulded articles where high rigidity is needed.

Typical applications of *Adstif*HA840R include food packaging containers, housewares, small appliances and technical parts.

Regulatory Status

For regulatory compliance information, see *Adstif*HA840R [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

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|--------------------------|--|
| Status | Commercial: Active |
| Availability | Africa-Middle East; Europe |
| Application | Caps & Closures; Furniture; Housewares |
| Market | Consumer Products; Rigid Packaging |
| Processing Method | Injection Molding |
| Attribute | Homopolymer; Medium Flow; Ultra High Stiffness |

| Typical Properties | Nominal Value | Units | Test Method |
|--|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 20 | g/10 min | ISO 1133-1 |
| Density, (23 °C) | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Tensile Modulus | 2300 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 41 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 12 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 6 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 2 | kJ/m ² | ISO 179 |
| Thermal | | | |
| Vicat Softening Temperature, (A50) | 158 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 110 | °C | ISO 75B-1, -2 |
| Optical | | | |
| Gloss, (60°) | 95 | % | ASTM D2457 |

Notes

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/>.

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