

## 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.

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

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

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