

## Technical Data

Product Description				
Ultradur® B 4300 G6 HR BK15116	Ultradur B 4300 G6 HR BK15116 is a hydrolysis resistant, pigmented black 30% fiberglass reinforced PBT, exhibiting good balance of properties and flow.			
Ultradur® B 4300 G6 HR Unc	Ultradur B 4300 G6 HR Unc. is a hydrolysis resistant, 30% fiberglass reinforced PBT, exhibiting good balance of properties and flow.			
	Ultradur B 4300 G6 HR Unc. was developed for automotive connectors designed to meet USCAR Class III requirements.			
General	Ultradur® B 4300 G6 HR BK15116	Ultradur® B 4300 G6 HR Unc		
Manufacturer / Supplier	• BASF Corporation	• BASF Corporation		
Generic Symbol	• PBT	• PBT		
Material Status	• Commercial: Active	• Commercial: Active		
Literature <sup>1</sup>	<ul style="list-style-type: none"> <li>• <a href="#">Brochure and Processing (English)</a></li> <li>• <a href="#">Processing - Injection Molding Cooling Times (English)</a></li> <li>• <a href="#">Technical Datasheet - ISO (English)</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Brochure and Processing (English)</a></li> <li>• <a href="#">Processing - Injection Molding Cooling Times (English)</a></li> <li>• <a href="#">Technical Datasheet (English)</a></li> </ul>		
Search for UL Yellow Card	<ul style="list-style-type: none"> <li>• <a href="#">BASF Corporation</a></li> <li>• <a href="#">Ultradur®</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">BASF Corporation</a></li> <li>• <a href="#">Ultradur®</a></li> </ul>		
Availability	• Europe	• Europe • North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight	• Glass Fiber Reinforcement, 30% Filler by Weight		
Features	<ul style="list-style-type: none"> <li>• Good Flow</li> <li>• Hydrolysis Resistant</li> </ul>	<ul style="list-style-type: none"> <li>• Good Flow</li> <li>• Hydrolysis Resistant</li> </ul>		
Uses	<ul style="list-style-type: none"> <li>• Automotive Applications</li> <li>• Connectors</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive Applications</li> <li>• Connectors</li> </ul>		
Agency Ratings	• EC 1907/2006 (REACH)	• EC 1907/2006 (REACH) • USCAR III		
RoHS Compliance	• RoHS Compliant	• RoHS Compliant		
Appearance	• Black	--		
Forms	• Pellets	• Pellets		
Processing Method	• Injection Molding	• Injection Molding		
Physical	Ultradur® B 4300 G6 HR BK15116	Ultradur® B 4300 G6 HR Unc	Unit	Test Method
Density	--	1.52	g/cm <sup>3</sup>	ISO 1183
	0.0549	--	lb/in <sup>3</sup>	ISO 1183 <sup>3</sup>
Viscosity Number (Reduced Viscosity)	105.0	105.0	ml/g	ISO 1628
Mechanical	Ultradur® B 4300 G6 HR BK15116	Ultradur® B 4300 G6 HR Unc	Unit	Test Method
Tensile modulus	1.23E+6	--	psi	ISO 527-2 <sup>3</sup>
Tensile Stress				
Break, 73°F	--	18700	psi	ISO 527-2
Break	18900	--	psi	ISO 527-2 <sup>3</sup>
Tensile Strain				
Break, 73°F	--	3.7	%	ISO 527-2
Break	3.5	--	%	ISO 527-2 <sup>3</sup>
Flexural Modulus (73°F)	1.17E+6	1.13E+6	psi	ISO 178
Flexural Strength (73°F)	27300	28900	psi	ISO 178

Impact	Ultradur® B 4300 G6 HR BK15116	Ultradur® B 4300 G6 HR Unc	Unit	Test Method
Charpy Notched Impact Strength				
73°F	--	6.7	ft·lb/in <sup>2</sup>	ISO 179
73°F	5.23	--	ft·lb/in <sup>2</sup>	ISO 179/1eA <sup>3</sup>
Charpy Unnotched Impact Strength				
73°F	--	37	ft·lb/in <sup>2</sup>	ISO 179
-22°F	29.5	--	ft·lb/in <sup>2</sup>	ISO 179/1eU <sup>3</sup>
73°F	32.8	--	ft·lb/in <sup>2</sup>	ISO 179/1eU <sup>3</sup>
Thermal	Ultradur® B 4300 G6 HR BK15116	Ultradur® B 4300 G6 HR Unc	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 <sup>3</sup>
66 psi	428	--	°F	
264 psi	401	--	°F	
Melting Temperature (DSC)	433	433	°F	ISO 3146
Injection	Ultradur® B 4300 G6 HR BK15116	Ultradur® B 4300 G6 HR Unc	Unit	
Drying Temperature	212 to 248	212 to 248	°F	
Drying Time	4.0	4.0	hr	
Suggested Max Moisture	0.040	0.040	%	
Processing (Melt) Temp	482 to 527	482 to 527	°F	
Mold Temperature	104 to 158	104 to 158	°F	
Injection Pressure	508 to 1810	508 to 1810	psi	
Injection Rate	Fast	Fast		
Back Pressure	< 145	--	psi	

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Where to Buy

Supplier

Ultradur® B 4300 G6 HR BK15116

**BASF Corporation**

Wyandotte, MI USA

Telephone: 800-527-TECH

Web: <http://www.plasticsportal.com/usa>

Ultradur® B 4300 G6 HR Unc

**BASF Corporation**

Wyandotte, MI USA

Telephone: 800-527-TECH

Web: <http://www.plasticsportal.com/usa>

Distributor

Ultradur® B 4300 G6 HR  
BK15116

**Ultrapolymers**

*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Bosnia and Herzegovina, Croatia, Ireland, Italy, Macedonia, Portugal, Serbia, Spain, Turkey, United Kingdom

Ultradur® B 4300 G6 HR Unc

**Amco Polymers LLC**

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

**Entec Polymers**

Telephone: 800-375-5440

Web: <http://www.entecpolymers.com/>

Availability: North America

**M. Holland Canada Company**

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

**M. Holland Company**

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

**Nexeo Solutions**

Telephone: 888-594-6009

Web: <http://www.nexeosolutions.com/>

Availability: North America

**Ultrapolymers**

*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

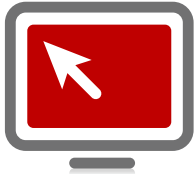
Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Bosnia and Herzegovina, Croatia, Ireland, Italy, Macedonia, Portugal, Serbia, Spain, Turkey, United Kingdom



Founded in 1986 and based in Laramie, Wyoming, IDES is now part of the UL family of companies. UL is a premier global independent safety science company with more than a century of proven history. Employing nearly 10,000 professionals in over 100 countries, UL has five distinct business units -- Product Safety, Environment, Life & Health, Knowledge Services and Verification Services -- to meet the expanding needs of our customers and to deliver on our public safety mission.



### Prospector Plastics Database - [www.ides.com/prospector](http://www.ides.com/prospector)

Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.

*"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"*

– Birgit Elvardt Bader, Production Manager, Micotron

#### Power Searches

**Property Search** – select plastics by 500 key properties and design parameters.

**Alternative Resins Search** – find replacement plastics within minutes.

**Automotive Plastics Search** – easily locate automotive approved plastics.

**Curve Data** – view, overlay and export curve data.



### Material Data Management – [www.ides.com/datasheets](http://www.ides.com/datasheets)

With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

*"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."*

– Kevin Chase, Owner & President, Chase Plastics



### Advertising – [www.ides.com/advertise](http://www.ides.com/advertise)

Reach 365,000 pre-qualified plastics professionals and generate leads with proven techniques. Electronic newsletter insertions, sponsored webinars and powerful online ads are available to make the most of your lead-generation program.



For more information, call: 800.788.4668 or 307.742.9227 ext. 220