



Energy lives here™

## Exxtral™ supports a new level of creativity to meet the European automotive market needs

With Exxtral™ performance polyolefins automotive European OEM and Tier 1 suppliers now have cost-effective, creative solutions to meet the evolving auto market needs. Our fully integrated, IATF certified manufacturing facility in Europe supports committed partners with tailored solutions, offering quality supply security and easy connectivity to the European markets.

### Automotive applications

- **Interior:** Instrument panels and central consoles, door panels, pillar trims, trunk trims and lower trims
- **Exterior:** Bumper fascia and bumper supports, exterior trims, front and cowl grilles and mirror covers
- **Under the hood:** Heating, ventilation and air conditioning (HVAC), air filters, covers and fan shrouds

### Key benefits



**Lightweight & high flow**

Delivers reduced density and higher flow grades while maintaining designed mechanical properties



**Aesthetically outstanding**

Ability to create parts offering outstanding appearance without defects



**Durable**

Non-tacky, scratch resistant and UV-resistant



**Recyclable**

100% recyclable where appropriate facilities exist



**Low odor & emissions**

Specific grades designed for interior and under the hood applications to meet OEM requirements



**Supply reliability**

Meets high standards for quality and security of supply

The following Exxtral™ performance polyolefins grades are available for automotive applications.



## Interior

Exxtral™ **BMU046x** performance polyolefins provides improved lightweight opportunities compared to current commercial grades for door panels.

Exxtral™	BMV204B	BMU143S	CMU236	CMV210S	CMV101A	BMU146x <sup>(3)</sup>	<b>BMU046x<sup>(3)</sup></b>	CNU015	CNU011	Test based on
Typical application	IP <sup>(4)</sup>	IP	IP retainer	Upper trim	Upper trim	Upper trim	<b>Door panel</b>	Lower trim	Lower trim	
Density (g/cm <sup>3</sup> ) <sup>(1)</sup>	1.04	1.00	1.05	1.03	0.970	1.02	<b>0.940</b>	0.910	0.900	ISO1183
MVR (cm <sup>3</sup> /10min) <sup>(1)</sup>	24	15	18	19	35	15	<b>26</b>	19	21	ISO1133
Shrinkage (%) <sup>(2)</sup>	0.85~1.05	1.0~1.2	1.0~1.2	0.95~1.15	1.2~1.4	0.9~1.1	<b>0.95~1.15</b>	1.45~1.65	1.4~1.6	<sup>(2)</sup>
Tensile Modulus (MPa) <sup>(1)</sup>	1950	1750	2420	2100	1890	1910	<b>1650</b>	1450	1200	ISO527-2/1
Charpy notched at 23°C (kJ/m <sup>2</sup> ) <sup>(1)</sup>	19	17	6.7	8.0	6.1	37	<b>26</b>	11	9.0	ISO179/1eA
HDT B (°C) <sup>(1)</sup>	103	96	109	100	104	101	<b>96</b>	95	78	ISO75-2/B



## Exterior

Exxtral™ performance polyolefins current development focuses on low-density bumper fascia and body panels.

Exxtral™	BMV214	BMU234	HMU216	BMU139	BMU131	CNU013	Test based on
Typical application	Front grille	Front grille	Cowl vent grille	Bumper	Bumper, front grille	Mirror housing	
Density (g/cm <sup>3</sup> ) <sup>(1)</sup>	1.04	1.02	1.05	0.960	0.980	0.910	ISO1183
MVR (cm <sup>3</sup> /10min) <sup>(1)</sup>	25	16	14	17	19	21	ISO1133
Shrinkage (%) <sup>(2)</sup>	0.8~1.0	0.9~1.1 <sup>(5)</sup>	1.0~1.2	1.05~1.25 <sup>(5)</sup>	1.1~1.3	1.4~1.6	<sup>(2)</sup>
Tensile Modulus (MPa) <sup>(1)</sup>	1600	1840	2920	1300	1240	1100	ISO527-2/1
Charpy notched at -20°C (kJ/m <sup>2</sup> ) <sup>(1)</sup>	6.1	5.5	-	8.0	8.0	5.0	ISO179/1eA
Comment	UV-stab	To paint	UV-stab	To paint	UV-stab	UV-stab	



## Under the Hood

Exxtral™ **HMU102A** performance polyolefins provides lightweight opportunities compared to current commercial grades for heating, ventilation and air conditioning (HVAC) applications.

Exxtral™	CNK010 <sup>(6)</sup>	CNU017	<b>HMU102A</b>	HMU202	HMU208	HMU234	HMU404	HMU405	Test based on
Density (g/cm <sup>3</sup> ) <sup>(1)</sup>	0.900	0.911	<b>0.980</b>	1.04	1.06	1.07	1.21	1.23	ISO1183
MVR (cm <sup>3</sup> /10min) <sup>(1)</sup>	1.5	20	<b>13</b>	13	14	13	13	11	ISO1133
Shrinkage (%) <sup>(2)</sup>	1.4~1.6	1.6~2.0	-	1.0~1.2	1.0~1.2	1.0~1.2	0.7~0.9	0.7~0.9	<sup>(2)</sup>
Tensile Modulus (MPa) <sup>(1)</sup>	1150	1800	<b>2470</b>	3100	3050	3200	3750	4430	ISO527-2/1
Charpy notched at 23°C (kJ/m <sup>2</sup> ) <sup>(1)</sup>	25	5.7	<b>3.0</b>	3.0	3.1	3.4	2.8	2.4	ISO179/1eA
Heat ageing at 150°C (hours)	~400	~650	<b>700</b>	~350	700	700	700	~350	EM Method
HDT B (°C) <sup>(1)</sup>	76	105	<b>115</b>	-	118	-	126	128	ISO75-2/B

Exxtral performance polyolefins interior, exterior and under the hood formulations are designed to meet OEM standards. Check their status with your sales representative.

<sup>(1)</sup> Data from product datasheet, except grades under development (see <sup>(3)</sup>)

<sup>(2)</sup> These are shrink estimates based on lab data or experience. Actual part shrink has to be verified by customer before cutting tools.

<sup>(3)</sup> Grade under development to meet OEM specs, last letter x to be defined, Studies #8397/8601 (Exxtral BMU046x) & #8560 (Exxtral BMU146x)

<sup>(4)</sup> Instrument panel

<sup>(5)</sup> After paint

<sup>(6)</sup> All materials colored in standard black, except CNK010, are natural

Contact us for more information:  
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**ExxonMobil**

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