

**General Information**

Product Description  
Additional Features:  
Good Printability

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Test Standards Available	<ul style="list-style-type: none"> <li>ASTM</li> </ul>
Features	<ul style="list-style-type: none"> <li>ESCR, High (Stress Crack Resist.)</li> <li>Impact Resistance, High</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Containers, Thermoformed</li> <li>Cups</li> <li>Lids</li> <li>Sheet</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>FDA 21 CFR 177.1640 <sup>1</sup></li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

**ASTM and ISO Properties <sup>2</sup>**

Physical	Nominal Value Unit	Test Method
Density -Specific Gravity	1.04 sp gr 23/23°C	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0 g/10 min	ASTM D1238
Mold Shrink, Linear-Flow	0.0040 to 0.0070 in/in	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Strength @ Yield (73 °F)	3050 psi	ASTM D638
Tensile Elongation @ Brk (73 °F)	50 %	ASTM D638
Flexural Modulus (73 °F)	239000 psi	ASTM D790
Flexural Strength (73 °F)	4210 psi	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (73 °F, 0.125 in)	2.80 ft-lb/in	ASTM D256
Thermal	Nominal Value Unit	Test Method
DTUL @264psi - Annealed	185 °F	ASTM D648
Vicat Softening Point	212 °F	ASTM D1525
Electrical	Nominal Value Unit	Test Method
Dielectric Constant (1E+6 Hz)	2.510	ASTM D150
Flammability	Nominal Value Unit	Test Method
Flame Rating - UL	HB	UL 94

**Processing Information**

Injection	Nominal Value Unit
Processing (Melt) Temp	374 to 525 °F
Mold Temperature	100 to 180 °F

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Notes

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<sup>1</sup> When used unmodified for the manufacture of food contact articles, Impact PS 5410 will comply with Food Additive Regulations FDA 21 CFR 177.1640 under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.

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

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