

Softell CA 02 A



Catalloy

Product Description

Softell CA 02 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary Catalloy process technology. It is primarily used for the extrusion, calendaring and extrusion blow molding of very soft film and sheet. Softell CA 02 A exhibits outstanding low stiffness, excellent low hardness and very good impact resistance. Softell CA 02 A shows high compatibility to fillers and flame retardant additives as well as to other polyolefins. The grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see Softell CA 02 A [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Automotive Flooring; Interior Automotive Applications; Polymer Modifier; Single Ply Roofing; Soft Profile & Sheets; Soft Touch Applications; TPO Foils and Skins
Market	Automotive; Industrial, Building & Construction
Processing Method	Calendaring; Compounding; Extrusion Coating; Sheet
Attribute	Good Flexibility; Good Processability; High Filler Loading Capability; High Impact Resistance

Typical Properties	Nominal		Test Method
	Value	Units	
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.6	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.88	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	30	MPa	ISO 178
Tensile Stress at Break	10	MPa	ISO 527-1, -2
Tensile Strain at Break	600	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	No Break	kJ/m ²	ISO 179
(-20 °C)	No Break	kJ/m ²	ISO 179
(-40 °C)	9	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore A)	75		ISO 868
Thermal			
Vicat Softening Temperature, (A/10 N)	41	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	38	°C	ISO 75B-1, -2
DSC Melting Point	142	°C	DSC

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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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.

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- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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