

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, calendering 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.

<b>Application</b>	Automotive Flooring; Interior Automotive Applications; Polymer Modifier; Single Ply Roofing; Soft Profile & Sheets; Soft Touch Applications; TPO Foils and Skins
<b>Market</b>	Automotive; Industrial, Building & Construction
<b>Processing Method</b>	Calendering; Compounding; Extrusion Coating; Sheet
<b>Attribute</b>	Good Flexibility; Good Processability; High Filler Loading Capability; High Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
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 <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
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
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	No Break	kJ/m <sup>2</sup>	ISO 179
(-20 °C)	No Break	kJ/m <sup>2</sup>	ISO 179
(-40 °C)	9	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Shore Hardness, (Shore A)	75		ISO 868
<b>Thermal</b>			
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

