

# Polytrope STR 1060EU-01 NATURAL

## LyondellBasell Industries - Enhanced TPO Polyolefin

### General Information

#### Product Description

Polytrope STR 1060EU resin is a high melt strength thermoformable TPO that balances toughness and exceptionally high stiffness, enabling processors and end users to reduce product weight and improve processing efficiency without sacrificing product performance. It can be extruded in smooth or textured surfaces, or co-extruded with a Polytrope STR enhanced polyolefin cap resin to further customize its durability, appearance, or feel for interior and exterior applications. The capability of Polytrope STR 1060EU to provide an exceptionally smooth surface in extrusion and thermoforming makes it well suited to lamination processes with decorative films. It is also easily colored and is paintable by standard TPO paint systems.

#### General

Features	<ul style="list-style-type: none"> <li>• Good Melt Strength</li> <li>• Good Weather Resistance</li> </ul>	<ul style="list-style-type: none"> <li>• Low CLTE</li> <li>• Low Temperature Impact Resistance</li> </ul>	<ul style="list-style-type: none"> <li>• Paintable</li> <li>• Recyclable Material</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Thermoforming Applications</li> </ul>		
Forms	<ul style="list-style-type: none"> <li>• Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>• Coextrusion</li> <li>• Extrusion</li> </ul>	<ul style="list-style-type: none"> <li>• Profile Extrusion</li> <li>• Sheet Extrusion</li> </ul>	

### Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.70	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	4470	psi	ISO 527-2/1/50
Tensile Strain (Break, 73°F)	180	%	ISO 527-2/1/50
Flexural Modulus - Chord <sup>2</sup> (73°F)	580000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact - Flow			ASTM D256
-22°F, 0.125 in, Injection Molded	0.60	ft-lb/in	
73°F, 0.125 in, Injection Molded	6.9	ft-lb/in	
Instrumented Dart Impact			ASTM D3763
39°F, Total Energy, Ductile Failure	360	in-lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	243	°F	ISO 75-2/Bf
CLTE - Flow (-22 to 212°F)	3.0E-5	in/in/°F	ASTM E831
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss <sup>3</sup> (60°, 125 mil, Thermoformed)	20 to 40		ISO 2813
Additional Information	Nominal Value	Unit	Test Method
Heat Sag - 8 inch span, two point support (300°F, 0.13 in)	0.0	in	ASTM D3769

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type 1A, 0.079 in/min

<sup>3</sup> Smooth