

# Polytrope STR 3566EU-01 CLEARNAT

LyondellBasell Industries - Enhanced TPO Polyolefin

## General Information

### Product Description

Polytrope STR 3566EU resin is a high gloss, weatherable, olefin cap resin possessing high clarity. It is non-stress whitening and provides exceptional durability against denting and scratches. It is specifically designed for the co-extrusion process as a cap resin over Polytrope STR enhanced polyolefin TPO and FR TPO base resins. It is especially suited for thermoformed applications, as it maintains its crystal clarity, DOI, and high gloss through the thermoforming process. Polytrope STR 3566EU-01 CLEAR can be used as a clear cap or it can be easily colored. The high clarity, gloss and durability of the cap resin enables it match or exceed the performance and appearance of acrylic resins, laminated films, and paint coatings. The innovative technology of this cap resin is patent pending.

### General

Features	<ul style="list-style-type: none"> <li>• Chemical Resistant</li> <li>• Durable</li> <li>• Good Weather Resistance</li> </ul>	<ul style="list-style-type: none"> <li>• High Clarity</li> <li>• High Scratch Resistance</li> <li>• Low Temperature Impact Resistance</li> </ul>	<ul style="list-style-type: none"> <li>• Recyclable Material</li> <li>• Stain Resistant</li> <li>• Stress Whitening Resistant</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	0.898	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	3500	psi	ISO 527-2/1/50
Tensile Strain (Break, 73°F)	500	%	ISO 527-2/1/50
Flexural Modulus - Chord <sup>2</sup> (73°F)	145000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact 5°F, Total Energy, Ductile Failure	340	in·lb	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	170	°F	ISO 75-2/Bf
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)	85 to 95		ISO 2813

### 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