

Polytrope STR 3035EU-01 NATURAL

LyondellBasell Industries - Enhanced TPO Polyolefin

General Information

Product Description

Polytrope STR 3035EU resin is a low gloss, weatherable, olefin cap resin with high surface hardness. It is resistant to stress whitening and provides exceptional durability against denting, scratches and wear. 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 embossed texture and low gloss through the thermoforming process. Polytrope STR 3035EU-01 Natural is easily colored. The low gloss and durability of the cap resin enables it match or exceed the performance and appearance of ABS, ASA and Acrylic alloy resins for smooth or textured interior and exterior hard panel applications.

General

Features	<ul style="list-style-type: none"> • Chemical Resistant • Durable • Good Weather Resistance 	<ul style="list-style-type: none"> • High Scratch Resistance • Low Temperature Impact Resistance • Recyclable Material 	<ul style="list-style-type: none"> • Stain Resistant • Stress Whitening Resistant
Uses	<ul style="list-style-type: none"> • Thermoforming Applications 		
Forms	<ul style="list-style-type: none"> • Pellets 		
Processing Method	<ul style="list-style-type: none"> • Coextrusion • Extrusion 	<ul style="list-style-type: none"> • Profile Extrusion • Sheet Extrusion 	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.40	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	3480	psi	ISO 527-2/1/50
Tensile Strain (Break, 73°F)	410	%	ISO 527-2/1/50
Flexural Modulus - Chord ² (73°F)	276000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact 14°F, Total Energy, Ductile Failure	354	in-lb	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	167	°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 ³ (60°, 125 mil, Thermoformed)	2 to 10		ISO 2813

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type 1A, 0.079 in/min

³ Smooth