

Technical Data Sheet

POLYTROPE[®] STR 3035EU-01 NATURAL

Enhanced Polyolefin (Capstock Resin)
Engineering Plastics

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 High Scratch Resistance 	<ul style="list-style-type: none"> Low Temperature Impact Resistance Recyclable Material Stain Resistant 	<ul style="list-style-type: none"> Stress Whitening Resistant Weather Resistant
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 	<ul style="list-style-type: none"> Thermoforming

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity ¹	1.06	1.06 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.40 g/10 min	0.40 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress ² (Yield, 73°F (23°C))	3480 psi	24.0 MPa	ISO 527-2
Tensile Strain ² (Break, 451°F (233°C))	410 %	410 %	ISO 527-2
Flexural Modulus - Chord ³ (73°F (23°C))	275000 psi	1900 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Instrumented Dart Impact 14°F (-10°C), Total Energy, Ductile Failure	354 in-lb	40.0 J	ASTM D3763
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	167 °F	75.0 °C	ISO 75-2/Bf
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm), All Colors)	HB	HB	UL 94
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Gloss 60°, 125 mil (3180 µm), Thermoformed, Smooth	2 to 10	2 to 10	ISO 2813

Notes

¹ Method A

² Type 1, 2.0 in/min (50 mm/min)

³ Type 1A, 0.079 in/min (2.0 mm/min)

Notes

These are typical property values not to be construed as specification limits.