

POLYTROPE® STR 3568EU-01 NATURAL

Enhanced Polyolefin (Capstock Resin)
Engineering Plastics

Product Description

POLYTROPE STR 3568EU resin is a low gloss, weatherable, olefin cap resin. 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 embossed texture and low gloss through the thermoforming process. POLYTROPE STR 3568EU-01 NATURAL is easily colored. The low gloss and durability of the cap resin enables it match or exceed the performance and appearance of other low gloss surfacing materials for interior and exterior applications.

General

Features	- Chemical Resistant - Durable - High Scratch Resistance	- Low Temperature Impact Resistance - Recyclable Material - Stain Resistant	- Stress Whitening Resistant - Weather Resistant
Forms	Pellets		
Processing Method	- Coextrusion - Extrusion	- Profile Extrusion - Sheet Extrusion	Thermoforming

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity ¹	0.890	0.888 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.60 g/10 min	0.60 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress ² (Yield, 73°F (23°C))	2400 psi	16.5 MPa	ISO 527-2
Tensile Strain ² (Break, 451°F (233°C))	650 %	650 %	ISO 527-2
Flexural Modulus - Chord ³ (73°F (23°C))	37000 psi	255 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Instrumented Dart Impact			ASTM D3763
-40°F (-40°C), Total Energy, Ductile Failure	320 in·lb	36.2 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/Bf
66 psi (0.45 MPa), Unannealed	140 °F	60.0 °C	
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			ISO 2813
60°, 125 mil (3180 µm), Thermoformed, Smooth	10 to 20	10 to 20	

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.

