

POLYTROPE® STR 3566EU-01 CLEAR

Enhanced Polyolefin (Capstock Resin)

A. Schulman Inc.

Message:

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 Information			
Features	Durable		
	Good Chemical Resistance		
	Good Weather Resistance		
	High Clarity		
	High Scratch Resistance		
	Low Temperature Impact Resistance		
	Recyclable Material		
	Stain Resistant		
	Stress Whitening Resistant		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.898	g/cm ³	ISO 1183
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 ² (Yield, 23°C)	24.1	MPa	ISO 527-2
Tensile Strain ³ (Break, 233°C)	500	%	ISO 527-2
Flexural Modulus - Chord ⁴ (23°C)	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (-15°C, Total Energy, Ductile Failure)	38.4	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	76.7	°C	ISO 75-2/Bf

Flammability	Nominal Value	Test Method
Flame Rating (3.18 mm, All Colors)	HB	UL 94
Optical	Nominal Value	Test Method
Gardner Gloss (60°, 3180 µm, Thermoformed, Smooth)	85 to 95	ISO 2813
NOTE		
1.	Method A	
2.	Type 1, 50 mm/min	
3.	Type 1, 50 mm/min	
4.	Type 1A, 2.0 mm/min	

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