

TEKNOR APEX

Monprene® OM-19150 NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene OM-19150 NAT is part of a series of adhesion-modified thermoplastic elastomers (available from 40 to 70 Shore A) designed for overmolding (insert and multi-shot) and co-extrusion onto polyamide (Nylon), including: PA 6, PA66, PA12, etc. These materials exhibit dry haptics and low compression set are well suited for overmolded seals or grips. Monprene OM-19150 NAT is REACH-SVHC and RoHS compliant and offers several benefits including superior adhesion onto polystyrene and easy molding with a wide processing window.

Material Status • Preliminary Data	North America
	North America
Availability• Africa & Middle East • Asia Pacific• Europe • Latin America	a
• Bondability • Good Compr • Chemical Resistant • Good Flexibil • Conformable • Good Flow • Ductile • Good Impact • Filled • Good Moldat • Good Colorability • Halogen Free	lity • Low Compression Set • Lubricated t Resistance • Medium Density bility • Medium Hardness
Uses • Bonding • Industrial App • Consumer Applications • Overmolding	Soft Jouch Applications
RoHS Compliance • RoHS Compliant	
Appearance	r • Opaque
Forms • Pellets	
Processing Method • Injection Molding • Multi Injection	n Molding

ASTM & ISO Properties¹

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Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	1.08		ASTM D792	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress ² (50% Strain)	160	psi	ASTM D412	
Tensile Stress ² (100% Strain)	225	psi	ASTM D412	
Tensile Strength ² (Break)	620	psi	ASTM D412	
Tensile Elongation ² (Break)	470	%	ASTM D412	
Tear Strength ²	125	lbf/in	ASTM D624	
Compression Set			ASTM D395B	
70°F, 22 hr	13	%		
158°F, 22 hr	37	%		
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness			ASTM D2240	
Shore A, 1 sec, Injection Molded	52			
Shore A, 5 sec, Injection Molded	50			
Additional Information	Nominal Value	Unit		
Adhesion to Nylon				
Adhesion to PA6				

Adhesion to PA66



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Processing Information		
Nominal Value Unit		
450 to 470 °F		
470 to 490 °F		
490 to 510 °F		
482 to 536 °F		
482 to 536 °F		
90 to 130 °F		
5000 to 6000 psi		
Fast		
2800 to 3000 psi		
	Nominal Value Unit 450 to 470 °F 470 to 490 °F 490 to 510 °F 482 to 536 °F 90 to 130 °F 5000 to 6000 psi Fast Fast	

Injection Notes

Drying is recommended to achieve a moisture level <= 0.08%. Dry the pellets for 2 to 4 hours at 185°F (85°C).

For overmolding to Nylon 6,6, use higher temperature settings than the recommended processing condition.

Nylon substrate must not be exposed to open air for long to avoid moisture adsorption.

Notes

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

² Die C, 20 in/min