



Sarlink® TPV 25355B

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

SARLINK® TPV 25300 series are engineered materials designed primarily for Nylon bondable applications. SARLINK® 25355B is a low density, medium hardness, RoHS compliant grade suitable for injection molding.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Alcohol Resistant • Chemical Resistant • Fatigue Resistant • Good Adhesion • Good Moldability • Good Processability	• Good Surface Finish • Heat Aging Resistant • High Elasticity • High Melt Stability • Low Density • Low Flow	• Low Specific Gravity • Medium Hardness • Medium Heat Resistance • Resilient • UV Stabilized
Uses	• Expansion Joint • Gaskets • Glazing	• Grommets • Plugs • Shock Absorbing Pads	• Tubing • Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.972		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	261	psi	
Flow : 100% Strain	334	psi	
Tensile Strength			ASTM D412
Across Flow : Break	653	psi	
Flow : Break	609	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	370	%	
Flow : Break	280	%	
Tear Strength - Across Flow	85.7	lbf/in	ASTM D624
Compression Set			ASTM D395B
158°F, 22 hr	28	%	
257°F, 70 hr	49	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec	54		
Shore A, 5 sec	52		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-86.3	°F	ASTM D746

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
257°F, 1008 hr	-2.3	%	
275°F, 168 hr	-4.4	%	
Change in Tensile Modulus in Air - Across Flow			ASTM D573
257°F, 1008 hr	6.7	%	
275°F, 168 hr	5.7	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
257°F, 1008 hr	-6.3	%	
275°F, 168 hr	-11	%	
Chemical Resistance	Nominal Value	Unit	Test Method
IRM 903 Oil Immersion Test, 257°F, 70 hr			
Change in Volume	158	%	ASTM D471
Change in Volume	158	%	ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			ASTM D3835
392°F	310	Pa·s	
473°F	251	Pa·s	
Excellent adhesion to nylon substrates			

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	446 to 473	°F
Middle Temperature	446 to 473	°F
Front Temperature	446 to 473	°F
Nozzle Temperature	446 to 473	°F
Processing (Melt) Temp	446 to 473	°F
Mold Temperature	86 to 104	°F
Injection Rate	Fast	

Injection Notes

Pre-drying is not typically necessary. However, if there is an issue with moisture the material can be dried at 82°C for 3 hours.

Listed processing conditions are for two-shot molding. For insert overmolding, it may be necessary to raise barrel and melt temperatures to 270-280°C and to pre-heat the nylon substrate.

Notes

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