



Sarlink® TPV 6150DB BLACK XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink® TPV 6100 series are engineered materials designed for automotive and industrial applications requiring elastic performance. Sarlink® TPV 6150DB XRD2 is a very high hardness, low density, multi-purpose thermoplastic vulcanizate and can be processed by injection molding and extrusion.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Flexibility • Good Flow	• Good Processability • High Hardness • Low Density	• Low Specific Gravity
Uses	• Automotive Applications	• Industrial Applications	• Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.890	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) ² (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage - Flow ³ (0.0787 in, Injection Molded)	0.018	in/in	
Molding Shrinkage - Across Flow ³ (0.0787 in, Injection Molded)	0.011	in/in	

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527
Across Flow : 100% Strain	1580	psi	
Flow : 100% Strain	2610	psi	
Tensile Stress - Across Flow (300% Strain)	1620	psi	ISO 527
Tensile Stress			
Across Flow : Break	3450	psi	ISO 37
Flow : Break	2730	psi	ISO 527
Tensile Elongation			ISO 527
Across Flow : Break	780	%	
Flow : Break	250	%	
Tear Strength			ISO 34-1
Across Flow	388	lbf/in	
Flow	257	lbf/in	
Compression Set ⁴			ISO 815
73°F, 70 hr	53	%	
158°F, 22 hr	67	%	
212°F, 22 hr	75	%	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D, 3 sec, 73°F, 0.236 in, Injection Molded	50		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 232 sec ⁻¹)	355	Pa·s	ASTM D3835

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Processing Information		
Injection	Nominal Value	Unit
Rear Temperature	284 to 320	°F
Middle Temperature	329 to 383	°F
Front Temperature	347 to 428	°F
Nozzle Temperature	356 to 428	°F
Processing (Melt) Temp	356 to 428	°F
Mold Temperature	59 to 131	°F
Injection Rate	Fast	
Screw Speed	25 to 75	rpm
Extrusion	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	356 to 401	°F
Cylinder Zone 2 Temp.	356 to 401	°F
Cylinder Zone 3 Temp.	374 to 410	°F
Cylinder Zone 4 Temp.	374 to 410	°F
Cylinder Zone 5 Temp.	383 to 419	°F
Die Temperature	383 to 419	°F
Take-Off Roll	68 to 122	°F

Notes

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

² Procedure A

³ Shrinkage measured on sample plaques (150 x 100 x 2 mm). Molding shrinkage depends on part geometry, wall thickness and processing conditions. The listed shrinkage values are not directly applicable for molded parts.

⁴ Method A