+135-3858-6433 (GuangDong)
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TEKNOR APEX

Sarlink® TPV 2555

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink TPV 2555 is a high performance thermoplastic vulcanizate used in consumer and industrial applications. Sarlink TPV 2555 is a low hardness, low density, RoHS compliant grade suitable for injection molding and extrusion.

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 Hardness • Low Specific Gravity • Medium Heat Resistance • Resilient
Uses	• Expansion Joint • Gaskets • Glazing	• Grommets • Plugs • Shock Absorbing Pads	• Tubing • Weatherstripping
Agency Ratings	• UL 94		
RoHS Compliance	• RoHS Compliant		
UL File Number	• QMFZ2.E54709		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.950		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D412
Across Flow : Break	670	psi	
Flow : Break	630	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	320	%	
Flow : Break	270	%	
Tear Strength	90.0	lbf/in	ASTM D624
Compression Set (212°F, 22 hr)	29	%	ASTM D395
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A	60		
Shore A, 5 sec	55		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-76.0	°F	ASTM D746
RTI Elec	122	°F	UL 746B
RTI Imp	122	°F	UL 746B
RTI Str	122	°F	UL 746B

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow (275°F, 24 hr)	3.0	%	ASTM D573
Change in Ultimate Elongation in Air (275°F, 24 hr)	7.0	%	ASTM D573
Change in Durometer Hardness in Air			ASTM D573
Shore A, 275°F, 24 hr	60		
Change in Tensile Strength - Across Flow			ASTM D471
73°F, 70 hr, in IRM 903 Oil	22	%	
Change in Ultimate Elongation - Across Flow			ASTM D471
73°F, 70 hr, in IRM 903 Oil	32	%	
Change in Volume (77°F, 70 hr, in IRM 903 Oil)	23	%	ASTM D471
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in, Natural and Black Colors)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0	hr
Rear Temperature	344 to 416	°F
Middle Temperature	354 to 426	°F
Front Temperature	364 to 436	°F
Nozzle Temperature	374 to 446	°F
Processing (Melt) Temp	374 to 446	°F
Mold Temperature	95 to 140	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 120	rpm
Cushion	0.150 to 1.00	in
Extrusion	**Nominal Value**	**Unit**
Cylinder Zone 1 Temp.	330 to 400	°F
Cylinder Zone 2 Temp.	340 to 410	°F
Cylinder Zone 3 Temp.	350 to 420	°F
Cylinder Zone 4 Temp.	365 to 435	°F
Cylinder Zone 5 Temp.	360 to 430	°F
Die Temperature	374 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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