Sarlink® TPE OM-1150N

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink TPE OM series are high performance specialty thermoplastic elastomers designed for automotive applications requiring excellent bondability to engineered resin substrates. Sarlink TPE OM-1150N is a medium hardness, medium density, opaque grade with good UV resistance that exhibits excellent adhesion to ABS, PC, and PC/ABS.

General Information			
Features	Without Fillers		
	Good UV resistance		
	Workability, good		
	Adhesiveness		
	Good adhesion		
	Medium liquidity		
	Good chemical resistance		
	Medium density		
	Medium hardness		
Uses	overmolding		
	Automotive Electronics		
	Application in Automobile Field		
	Car interior parts		
	Soft touch application		
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.998	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding [1]	45		ASTM D2240
Shore A, 5 seconds, injection molding [2]	55		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [3]			ASTM D412
Transverse flow: 100% strain	1.48	MPa	ASTM D412

Flow: 100% strain	1.65	MPa	ASTM D412
Transverse flow: 300% strain	2.90	MPa	ASTM D412
Flow: 300% strain	3.27	MPa	ASTM D412
Tensile Strength [4]			ASTM D412
Transverse flow: Fracture	5.67	MPa	ASTM D412
Flow: Fracture	5.87	MPa	ASTM D412
Tensile Elongation [5]			ASTM D412
Transverse flow: Fracture	550	%	ASTM D412
Flow: Fracture	540	%	ASTM D412
Compression Set [6]			ASTM D395B
23°C, 22 hr	42	%	ASTM D395B
70°C, 22 hr	91	%	ASTM D395B

Additional Information	Nominal Value	Unit
Adhesion Strength - Cohesive Failure	51	N
Adhesion to ABS		
Adhesion to PC		
Adhesion to PC/ABS		

Legal statement

Injection	Nominal Value	Unit
Drying Temperature	60	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	138 - 188	°C
Middle Temperature	154 - 199	°C
Front Temperature	154 - 216	°C
Nozzle Temperature	154 - 221	°C
Processing (Melt) Temp	166 - 221	°C
Mold Temperature	10 - 32	°C
Injection Pressure	1.38 - 5.52	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

Injection instructions

Moisture can degrade the material. Drying is suggested. This can be accomplished by placing the material in a desiccant dryer for 2 to 4 hours at140°F.

NOTE

1.	Aging 0 hr at 23°C

2.	Aging 48 hr at 23°C
3.	C mold, 510mm/min
4.	C mold, 510mm/min
5.	C mold, 510mm/min
6.	Type 1

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China