+135-3858-6433 (GuangDong)
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TEKNOR APEX

Sarlink® TPE OM-2145 BLACK 404

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink TPE OM series are high performance specialty thermoplastic elastomers designed for automotive applications requiring excellent bondability to engineered resin substrates. Sarlink TPE OM-2145 is a medium hardness, medium density, UV stabilized, opaque grade that exhibits excellent adhesion to ABS, PC, PC/ABS.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Good Adhesion • Good Colorability	• Good Processability • Medium Density • Medium Hardness	• Soft • UV Resistant
Uses	• Automotive Applications • Automotive Interior Parts	• Rubber Replacement • Soft Touch Applications	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• STELLANTIS PS-7000 [1]		
Appearance	• Black	• Opaque	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [2]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.960		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.020	in/in	ASTM D955
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	1100	psi	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	50		ASTM D2240
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

Additional Information

Excellent adhesion to ABS
Excellent adhesion to PC
Excellent adhesion to PC/ABS

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	140	°F

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Injection	Nominal Value	Unit
Drying Time	2.0 to 4.0	hr
Rear Temperature	280 to 320	°F
Middle Temperature	360 to 390	°F
Front Temperature	360 to 390	°F
Nozzle Temperature	380 to 410	°F
Processing (Melt) Temp	350 to 390	°F
Mold Temperature	40 to 120	°F
Injection Pressure	200 to 800	psi
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

Injection Notes

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 at 140°F.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	280 to 300	°F
Cylinder Zone 2 Temp.	300 to 320	°F
Cylinder Zone 3 Temp.	320 to 360	°F
Cylinder Zone 5 Temp.	340 to 380	°F
Die Temperature	360 to 400	°F

Notes

[1] (Formerly approved under Tekbond 6000-50UV Black 404)

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