

Trexlink™ 4750

Thermoplastic Elastomer

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Trexlink™ 4750 is a highly engineered Thermoplastic Elastomer for use in applications requiring integrally colored material. This material is UV stabilized and can be pre-colored in most Automotive Interior or other colors. It can be easily processed by injection molding, blow molding or extrusion. Applications include critical color matched Automotive components such cup holders, mats, seals, soft seat trim. Also works well for two-shot molding or over-mold components such as grips and handles.

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
	Workability, good		
	Good coloring		
Uses	Handle		
	overmolding		
	Seals		
	Car interior parts		
	Car interior equipment		
	Soft handle		
	Seat		
Appearance	Available colors		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec, Injection Molded)	55		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow ¹ (100% Strain)	1.60	MPa	ISO 37
Tensile Stress - Across Flow ² (Yield)	4.60	MPa	ISO 37
Tensile Elongation - Across Flow ³ (Break)	540	%	ISO 37
Tear Strength - Across Flow ⁴	18	kN/m	ISO 34-1
Compression Set ⁵ (70°C, 22 hr)	28	%	ISO 815
Aging	Nominal Value	Unit	Test Method

Change in Tensile Strength in Air ⁶ (135°C, 1000 hr)	10	%	ISO 188
Change in Tensile Strain at Break in Air ⁷ (135°C, 1000 hr)	17	%	ISO 188
Change in Shore Hardness in Air (135°C, 1000 hr)	4.0		ISO 188

Additional Information

Change in Color, SAE J1885, 1240.8kJ/m² exposure: <3.0 delta E
Change in Modulus at 100%, ISO 118, method B, 1000 hrs, 135°C: 21%

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	3.0	hr
Rear Temperature	177 - 216	°C
Middle Temperature	177 - 216	°C
Front Temperature	177 - 216	°C
Nozzle Temperature	188 - 221	°C
Processing (Melt) Temp	182 - 221	°C
Mold Temperature	10.0 - 65.6	°C
Back Pressure	0.0689 - 1.03	MPa
Screw Speed	100 - 200	rpm
Screw L/D Ratio	20.0:1.0	

Extrusion	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	182 - 204	°C
Cylinder Zone 2 Temp.	182 - 204	°C
Cylinder Zone 3 Temp.	188 - 210	°C
Cylinder Zone 4 Temp.	188 - 210	°C
Melt Temperature	193 - 216	°C
Die Temperature	193 - 216	°C
Take-Off Roll	21.1 - 48.9	°C

Extrusion instructions

Screen Pack: 20 to 60 mesh
Screw: general purpose 3 to 1 compression ratio

NOTE

1. Type 1
2. Type 1
3. Type 1
4. Method B, right-angle specimen (cut)
5. Type a
6. Method B
7. Method B

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