

THERMOLAST® K TC4SCE (Series: SCR)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The SCR Series is your material solution for applications requiring a high degree of scratch resistance. The series is characterized, among other things, by a pleasant feel.

Typical applications

Car mats

Function and design elements

Handles (tools, toolboxes, skipoles)

Soft touch surface (thumb wheels, push buttons, switches)

Material advantages

Adhesion to PP

Easy coloring (compounds in natural colors)

Excellent abrasion resistance

Excellent mechanical properties

Excellent scratch resistance

Pleasant surface feel (Soft touch)

General Information			
Features	Good Abrasion Resistance		
	Good Adhesion		
	Good Colorability		
	Scratch Resistant		
	Soft		
Uses	Handles		
	Soft Touch Applications		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	37		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Scratch Resistance ¹	0.500		VW PV3952
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (Yield)	7.60	MPa	ISO 37
Tensile Elongation ³ (Break)	620	%	ISO 37
Tear Strength ⁴	11	kN/m	ISO 34-1
Compression Set ⁵			ISO 815
23°C, 72 hr	19	%	
70°C, 24 hr	40	%	

100°C, 24 hr	75	%
Injection	Nominal Value	Unit
Drying Temperature	60.0 to 80.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	180	°C
Middle Temperature	200	°C
Front Temperature	220	°C
Mold Temperature	25.0 to 40.0	°C
Injection Pressure	20.0 to 100	MPa
Back Pressure	2.00 to 10.0	MPa
NOTE		
1.	10N	
2.	Type S2, 200 mm/min	
3.	Type S2, 200 mm/min	
4.	Method Bb, Angle (Nicked)	
5.	Method A	

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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

