Elastollan® C 59 D

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties. Outstanding tensile strength and high elongation at break, good damping characteristics, a high resilience performance and very good wear resistance.
Typical applications
Spiral tubing, pneumatic tubing, round belting, technical mouldings e.g. bushes, dust caps, seals, joints, blow moulded bellows, fan belts.

General Information	
UL YellowCard	E140250-222875
Features	Good Wear Resistance High Elongation High Tensile Strength Resilient
Uses	Belts/Belt Repair Bushings Caps Seals Tubing
Processing Method	Blow Molding Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ISO 1183/A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 3 sec)	57		ISO 7619
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	250	MPa	ISO 527-2
Abrasion Loss	20.0	mm³	ISO 4649-A
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			DIN 53504
20% Strain	12.0	MPa	
100% Strain	17.0	MPa	
300% Strain	30.0	MPa	
Tensile Stress			DIN 53504
Yield [1]	43.0	MPa	
Yield	50.0	MPa	

Tensile Elongation			DIN 53504
Break [2]	480	%	
Break	500	%	
Tear Strength [3]	160	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	30	%	
70°C, 24 hr	50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m^2	
23°C	No Break		
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 to 240	°C	
Mold Temperature	20.0 to 70.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 230	°C	
NOTE			
1.	after storage in water for 21 days at 80°C		
2.	after storage in water for 21 days at 80°C		
3.	Method Bb, Angle (Nicked)		

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