

Elastollan® C 85 A HPM

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, very good damping and resilience performance, heat resistance and improved cycle times.

Typical applications
(Automotive) e.g. sealings, stop dampers, cable jackets.

General Information			
Features	High Heat Resistance		
	Resilient		
Uses	Automotive Applications		
	Cable Jacketing		
	Seals		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	85		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	40.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	3.50	MPa	
100% Strain	6.00	MPa	
300% Strain	11.0	MPa	
Tensile Stress			DIN 53504
Yield ¹	35.0	MPa	
Yield	45.0	MPa	
Tensile Elongation			DIN 53504
Break ²	800	%	
Break	750	%	
Tear Strength ³	70	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	20	%	

70°C, 24 hr	30	%	
100°C, 24 hr	45	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ISO 306/A120
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 220	°C	
Mold Temperature	20.0 to 50.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 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)		

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