Elastollan® C 70 A HPM

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Technical Data

Product Description

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

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	1.18	g/cm³	ISO 1183/A
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Abrasion Loss	50.0	mm³	ISO 4649-A
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			DIN 53504
20% Strain	1.50	MPa	
100% Strain	2.50	MPa	
300% Strain	4.50	MPa	
Tensile Stress			DIN 53504
Yield	40.0	MPa	
Yield [3]	30.0	MPa	
Tensile Elongation			DIN 53504
Break	900	%	
Break [3]	850	%	
Tear Strength [4]	45.0	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	35	%	
100°C, 24 hr	50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 3 sec)	71		ISO 7619
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	90.0	°C	ISO 306/A120

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 220	°C
Mold Temperature	20 to 50	°C
Extrusion	**Nominal Value**	**Unit**
Melt Temperature	180 to 230	°C