Zythane® 6085AU

Thermoplastic Polyurethane Elastomer (Polyether)

Alliance Polymers & Services

Message:

Zythane 6085AU is a UV stabilized FDA polyether--based TPU specifically formulated for extrusion applications. It exhibits excellent abrasion resistance and toughness and has good hydrolytic stability, oil, fuel and solvent resistance. It is supplied uncolored in pellet form

Typical Applications:

Zythane 6085AU applications include among others FDA applications, sports shoes, ski tips, other sporting goods, casters, power tools handles, good overmolded adhesion to certain EP (ex: PC, ABS, PMMA), cell phone cases, plugs, terminations, ski boot shell, animal tags, railroad pads.

General Information			
Additive	UV stabilizer		
Features	Solvent resistance		
	Good UV resistance		
	Good wear resistance		
	Fuel resistance		
	Oil resistance		
	Good toughness		
	Hydrolysis stability		
Uses	Wheels		
Uses	Power/other tools		
	Industrial application		
	Mobile phone		
	Sporting goods Footwear		
	rootwear		
Agency Ratings	FDA not rated		
Appearance	Colorless		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance	28.0	mg	ASTM D1044
Abrasion - DIN	18	mm³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method

		ASTM D412
6.00	MPa	ASTM D412
10.0	MPa	ASTM D412
37.0	MPa	ASTM D412
550	%	ASTM D412
108	kN/m	ASTM D624
		ASTM D395B
23	%	ASTM D395B
39	%	ASTM D395B
Nominal Value	Unit	Test Method
-37.8	°C	DSC
105	°C	ASTM D1525
Nominal Value		Test Method
		UL 94
НВ		UL 94
НВ		UL 94
НВ		UL 94
Nominal Value	Unit	
85.0	°C	
4.0	hr	
180	°C	
195	°C	
200	°C	
200 - 215	°C	
205 - 210	°C	
25.0 - 60.0	°C	
0.500 - 1.00	MPa	
60 - 200	rpm	
4.1 - 6.9	kN/cm²	
Nominal Value	Unit	
85.0	°C	
4.0	hr	
180	°C	
195	°C	
200	°C	
208	°C	
C mould		
	10.0 37.0 550 108 23 39 Nominal Value -37.8 105 Nominal Value HB HB HB HB Nominal Value 85.0 4.0 180 195 200 200 - 215 205 - 210 25.0 - 60.0 0.500 - 1.00 60 - 200 4.1 - 6.9 Nominal Value 85.0 4.0 180 195 200 208	10.0 MPa 37.0 MPa 37.0 MPa 550 % 108 kN/m 23 % 39 % Nominal Value Unit -37.8 °C 105 °C Nominal Value HB HB HB HB HB O C 195 °C 200 °C 200 °C 200 -215 °C 205 -210 °C 205 -210 °C 205 -210 °C 205 -210 °C C 205 -00.0 °C 0.500 -1.00 MPa 60 -200 rpm 4.1 - 6.9 kN/cm²

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



Page 3