Zythane® 7085AF

Thermoplastic Polyurethane Elastomer (Polyether)

Alliance Polymers & Services

Message:

Zythane 7085AF is a FR polyether--based TPU specifically formulated with non--halogenated flame retardants for extrusion applications with ease of processing. 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 7085AF applications include among others FDA applications, cable sheathing, spiral and pneumatic tubing, film, irrigation hoses, conveyor hoses, fire hoses, hydraulic hoses, cable jacketing, flat flex cables, automotive sensor cables.

General Information	
Features	Solvent resistance Good wear resistance Fuel resistance Oil resistance Good toughness Hydrolysis stability Halogen-free Flame retardancy
Uses	Cable sheath Pipe Pipe fittings Application in Automobile Field
Agency Ratings	FDA not rated
Appearance	Colorless
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	87		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Taber Abrasion Resistance	40.0	mg	ASTM D1044
Abrasion - DIN	20	mm³	DIN 53516
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% strain	5.00	MPa	ASTM D412

300% strain	7.00	MPa	ASTM D412
Tensile Strength (Break)	25.0	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength [1]	88.3	kN/m	ASTM D624
Compression Set			ASTM D395B
24°C, 22 hr	23	%	ASTM D395B
70°C, 72 hr	41	%	ASTM D395B
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-37.2	°C	DSC
Vicat Softening Temperature	125	°C	ASTM D1525
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
1.00 mm	HB		UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	85.0	°C	
Drying Time	4.0	hr	
Rear Temperature	185	°C	
Middle Temperature	200	°C	
Front Temperature	205	°C	
Nozzle Temperature	205 - 215	°C	
Processing (Melt) Temp	205 - 215	°C	
Mold Temperature	25.0 - 60.0	°C	
Back Pressure	0.500 - 1.00	MPa	
Screw Speed	60 - 200	rpm	
Clamp Tonnage	4.1 - 6.9	kN/cm^2	
Injection instructions			
Injection Speed: >.4 in/sec			
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	85.0	°C	
Drying Time	4.0	hr	
Cylinder Zone 1 Temp.	185	°C	
Cylinder Zone 2 Temp.	200	°C	
Cylinder Zone 3 Temp.	205	°C	
Die Temperature	212	°C	
Extrusion instructions			
Gate Temperature: 205°C (401°F)			
NOTE			
1.	C mould		

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