Ultralast™ ME930

Polyurethane (Polyether, MDI)

Chemtura

Message:

Ultralast Thermoplastic Urethanes combine our proprietary LF and polymerization technology that provide well-defined molecular structure, better phase segregation and stronger hard segments.
Features of Ultralast ME930 include:
Excellent dynamic properties
High cut and tear resistance
Superior hydrolytic and oil resistance
Lower processing temperatures
MARKETS
Ultralast Thermoplastic Urethanes can meet the needs of diverse applications requiring performance. ME930 is designed but not limited to the recreational sports, industrial, mining and oil & gas market.

General Information	
Features	Good Tear Strength Hydrolytically Stable Oil Resistant
Uses	Industrial Applications Mining Applications Oil/Gas Applications Sporting Goods
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	15 to 45	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.1	%	
Across Flow : 24 hr	1.1	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	92 to 94		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	55.7	MPa	ASTM D790
Abrasion Resistance - DIN	31.0	mm³	DIN 53516
Dynamic Properties			
Storage Modulus : 30°C	2.98E+8	dynes/cm²	
Storage Modulus : 130°C	1.01E+8	dynes/cm²	

Tangent Delta : 30°C	0.0610		
Tangent Delta : 130°C	0.0570		
Films	**Nominal Value**	**Unit**	**Test Method**
Trouser Tear Resistance	47.5	N/mm	ASTM D1938
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	10.2	MPa	ASTM D412
Tensile Strength	32.8	MPa	ASTM D412
Tensile Elongation (Break)	680	%	ASTM D412
Tear Strength			ASTM D470
Split [1]	25	kN/m	
Split	41	kN/m	
Compression Set (70°C, 22 hr)	55	%	ASTM D395B
Bayshore Resilience	56	%	ASTM D2632
Thermal	**Nominal Value**	**Unit**	
Glass Transition Temperature	-36.0	°C	
Injection	**Nominal Value**	**Unit**	
Rear Temperature	160 to 180	°C	
Middle Temperature	160 to 180	°C	
Front Temperature	160 to 180	°C	
Nozzle Temperature	160 to 180	°C	
Processing (Melt) Temp	175 to 190	°C	
Mold Temperature	20.0 to 55.0	°C	
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	155 to 175	°C	
Cylinder Zone 3 Temp.	155 to 175	°C	
Cylinder Zone 5 Temp.	155 to 175	°C	
Melt Temperature	170 to 190	°C	
Die Temperature	160 to 190	°C	
NOTE			
1.	Oil resistance, IRM #903 oil aged (3 weeks at 100°C)		

Recommended distributors for this material

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