

Royalcast® 23790M

Polyurethane (Polyester, MDI)

Chemtura

Message:

ROYALCAST 23790M is a high performance polyester based, MDI terminated liquid urethane prepolymer. When cured with HQEE, this member of the ROYALCAST family produces high quality vulcanizates in the 80 Shore D hardness range. These tough, high quality elastomers are characterized by:

- High Tear Strength
- Good Dynamic Properties
- Low Compression Set
- High Impact Strength

ROYALCAST 23790M, at processing temperature, is low in viscosity and has a working life suitable for machine casting procedures.

General Information			
Features	Good Impact Resistance		
	Good Tear Strength		
	Good Toughness		
	Low Compression Set		
	Low Viscosity		
Forms	Liquid		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2240	MPa	ASTM D790
Flexural Strength	73.3	MPa	ASTM D790
Taber Abrasion Resistance (5000 Cycles, 1000 g, H-18 Wheel)	350	mg	ASTM D1044
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance	41.2	N/mm	ASTM D1938
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	51.7	MPa	ASTM D412
Tensile Elongation (Break)	90	%	ASTM D412
Tear Strength			
-- 1	214	kN/m	ASTM D624
Split	28	kN/m	ASTM D470
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 31		
Resin	Mix Ratio by Weight: 100		
Pot Life	3.0	min	
Post Cure Time (100°C)	16	hr	

Uncured Properties	Nominal Value	Unit
Curing Time (121°C)	0.50	hr
NOTE		
1.	Die C	

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