

MIRATHANE® E155D

Technical Data Sheet

Polyester-based TPU

■ Features

Abrasion Resistance, Excellent Strength, Oil Resistance.

■ Applications

Castor, Shoes, Seals, Injection, etc.

■ Properties

Properties	Standard	Unit	Value
Physical Properties			
Density	ASTM D792	g/cm ³	1.21
Hardness	ASTM D2240	Shore A	
	ASTM D2240	Shore D	55
Mechanical Properties			
Tensile Strength	ASTM D412	MPa	52
100% Modulus	ASTM D412	MPa	16
300% Modulus	ASTM D412	MPa	38
Elongation at Break	ASTM D412	%	380
Tear Strength	ASTM D624	kN/m	160
DIN Abrasion	DIN 53516	mm ³	35
Compression Set (72 hours@23°C)	ASTM D395	%	28
Compression Set (22 hours@70°C)	ASTM D395	%	36
Thermal Properties			
Tg (DSC,10°C/min)	DSC	°C	-27

Note: The above values are shown as typical values and should not be used as specifications.

Package: Normally 25kg/bag;

■ Processing Guide

For optimum results, previous drying of the product during 3-4 hours at 100~120°C is advisable, in a hot air circulatory, vacuum or desiccant-air dryer. The suggested processing-temperature profiles for injection & extrusion are depicted in the figure below.

Injection:

Zones	Set Value
Nozzle(°C)	220
Metering(°C)	215
Compression(°C)	210
Feeding(°C)	205
Pressure(kg)	90

Extrusion:

Zones	Set Value
Die(°C)	210
Adaptor(°C)	215
Metering(°C)	210
Compression(°C)	205
Feeding(°C)	200

■ Environmental & Healthy & Safety

Take MSDS for reference.

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The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. The user is welcome to contact our customer and technical service center with questions on our products.