TRIEL® 5652EM

Samyang Corporation - *Thermoplastic Polyester Elastomer*

General Information

Product Description

TRIEL® offers significant chemical resistance, thermal resistance, weatherability and low temperature flexibility.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Uses	• General Purpose		
Forms	• Pellets		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.24		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.017 to 0.020	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.50	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	4980	psi	ASTM D638
Tensile Elongation (Break)	> 400	%	ASTM D638
Flexural Modulus	51900	psi	ASTM D790
Flexural Strength (Yield)	2350	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Unnotched Izod Impact			ASTM D4812
-40°F	No Break		
73°F	1.5 to 1.8	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	243	°F	ASTM D648
Vicat Softening Temperature	392	°F	ASTM D1525 [2]
Melting Temperature	401	°F	ASTM D2117

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Rate B (120°C/h), Loading 1 (10 N)

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