ColorFast® TPES5000-43A

Product Description TPES5000-43A is an injection molding grade styrenic block copolymer (TPE-S) with excellent processability and colorability. It is specifically designed for nylon overmolding applications and is suitable for a wide range of thermoplastic elastomer applications.

Material Status Commercial: Active

Availability Africa & Middle East, Asia Pacific, Europe, Latin America, North America

Features Excellent Colorability

Uses Consumer Applications, Household Goods, Industrial Applications, Industrial Parts

Forms Pellets

Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.9 to 2.6	%	ASTM D955

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.03	MPa	ASTM D412
Tensile Strength	2.00	MPa	ASTM D412
Tensile Elongation (Break)	510	%	ASTM D412
Tear Strength	15.8	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	22	%	ASTM D395B

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec, 23°C)	43		ASTM D2240

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity	31.0	Pa·s	ASTM D3835

Injection	Nominal Value	Unit
Drying Temperature	93 to 104	°C
Drying Time	2.0	hr
Rear Temperature	196 to 210	°C
Middle Temperature	199 to 210	°C
Front Temperature	199 to 210	°C
Nozzle Temperature	202 to 216	°C
Processing (Melt) Temp	202 to 216	°C
Mold Temperature	21 to 49	°C
Back Pressure	5.52	MPa

Properties provided are only typical values and Americhem assumes no liability for the customer's use of the information provided. The customer assumes all responsibility for testing determining this products suitability in the customer's specific end application.

Revision Date: 9/16/2024

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Injection	Nominal Value	Unit
Screw Speed	40 to 80	rpm

Notes

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

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