

Soffflex 0954 3734 Purple

LyondellBasell Industries - Thermoplastic Elastomer

General Information

Product Description

Soffflex 0954 3734 Purple is a Thermoplastic Elastomer material and is typically used in Coating, Injection Molding applications.

General

Forms	• Pellets
Processing Method	• Coating • Injection Molding

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09		ASTM D792
Melt Mass-Flow Rate (MFR) ²			ASTM D1238
200°C/5.0 kg	21	g/10 min	
235°C/1.0 kg	19	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance			ASTM D3389
1000 Cycles, 1000 g, H-22 Wheel	238	mg	
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (100% Strain)	7	%	ASTM D412
Tensile Stress (50% Strain)	373	psi	ASTM D412
Tensile Stress (100% Strain)	474	psi	ASTM D412
Tensile Stress (300% Strain)	711	psi	ASTM D412
Tensile Strength ³ (Yield)	1380	psi	ASTM D412
Tensile Elongation (Break)	810	%	ASTM D412
Tear Strength	260	lbf/in	ASTM D624
Compression Set			ASTM D395B
73°F, 22 hr	24	%	
158°F, 22 hr	78	%	
212°F, 22 hr	96	%	
Impact	Nominal Value	Unit	Test Method
Gardner Impact (-22°F)	> 320	in-lb	ASTM D5420
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	68 to 78		
Shore A, 10 sec	64 to 74		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	129 to 140	°F
Drying Time	4.0 to 6.0	hr
Suggested Shot Size	40 to 80	%
Rear Temperature	320 to 360	°F
Middle Temperature	340 to 379	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	390 to 421	°F

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Injection	Nominal Value	Unit
Processing (Melt) Temp	379 to 410	°F
Mold Temperature	81 to 120	°F
Injection Pressure	5000 to 6000	psi
Holding Pressure	4000 to 4500	psi
Back Pressure	75.0 to 149	psi
Screw Speed	20 to 40	rpm

Notes

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

² Procedure A

³ 20 in/min