

ZYLAR® 670

INEOS Styrolution - Methyl Methacrylate Butadiene Styrene

Monday, November 4, 2019

General Information

Product Description

Zylar® 670 is an impact modified styrene acrylic copolymer that provides practical toughness, excellent clarity and superior processing characteristics for demanding injection molded applications.

FEATURES

- · Excellent clarity
- · Exceptional performance in drop tests
- · Low density
- · Ease of processing
- · Low moisture absorption
- · Gamma & ETO sterilizable

APPLICATIONS

- · Appliances and consumer goods
- · Medical devices
- Toys
- · Office accessories
- · Industrial housings and covers
- · Reusable drinkware

General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Additive	 Impact Modifier 		
Features	CopolymerGood ProcessabilityGood Sterilizability	 Good Toughness High Clarity Impact Modified	Low DensityLow Moisture Absorption
Uses	AppliancesConsumer Applications	 Housings Industrial Applications	 Medical Devices Toys
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	1.05		ASTM D792		
Density	1.05	g/cm³	ISO 1183		
Melt Mass-Flow Rate (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238		
Melt Volume-Flow Rate (MVR)			ISO 1133		
200°C/5.0 kg	6.00	cm³/10min			
220°C/10.0 kg	55	cm ³ /10min			
Molding Shrinkage - Flow	2.0E-3 to 6.0E-3	in/in	ASTM D955		
Molding Shrinkage	0.20 to 0.60	%	ISO 294-4		
Water Absorption (Saturation, 73°F)	0.10	%	ASTM D570		
Water Absorption (Saturation, 73°F)	0.10	%	ISO 62		
Water Absorption (Equilibrium, 73°F, 50% RH)	0.050	%	ISO 62		



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Nominal Value	Unit	Test Method
265000	psi	ASTM D638
261000	psi	ISO 527-2
4000	psi	ASTM D638
4060	psi	ISO 527-2
42	%	ASTM D638
42	%	ISO 527-2
265000	psi	ASTM D790
261000	psi	ISO 178
6000	psi	ASTM D790
5950	psi	ISO 178
Nominal Value	Unit	Test Method
1.9	ft·lb/in²	ISO 179/1eA
62	ft·lb/in²	ISO 179/1eU
2.0	ft·lb/in	ASTM D256
2.9	ft·lb/in²	ISO 180/A
67	ft·lb/in²	ISO 180
70.0	in·lb	ASTM D5420
Nominal Value	Unit	Test Method
70		ASTM D785
70		
Nominal Value	Unit	Test Method
208	°F	ASTM D1525 ²
212	°F	ISO 306/A120
162	°F	ISO 306/B50
482	°F	
Nominal Value	Unit	Test Method
> 1.0E+14	ohms	IEC 60093
> 1.0E+15	ohms·cm	IEC 60093
2.50		IEC 60250
Nominal Value	Unit	Test Method
1.560		ASTM D542
1.560		ISO 489
91.0	%	ASTM D1003
2.00	%	ASTM D1003
356 to 410	°F	
365 to 428	°F	
374 to 437	°F	
392 to 464	°F	
392 to 464 86 to 131		
	265000 261000 4000 4060 422 42 265000 261000 6000 5950 Nominal Value 1.9 62 2.0 2.9 67 70.0 Nominal Value 70 Nominal Value 208 212 162 482 Nominal Value 208 Nominal Value 212 162 482 Nominal Value 31.0E+14 > 1.0E+15 2.50 Nominal Value 1.560 91.0 2.00 nformation Nominal Value 149 2.0 356 to 410 365 to 428	70 Nominal Value Unit 208 °F 212 °F 162 °F 482 °F Nominal Value Unit > 1.0E+14 ohms > 1.0E+15 ohms⋅cm 2.50 Nominal Value Unit 1.560 1.560 91.0 % 2.00 %



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Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Rate B (120°C/h), Loading 1 (10 N)
- ³ Sodium D Line

