ZYLAR® 670

Methyl Methacrylate Butadiene Styrene

INEOS Styrolution Group GmbH

Message:

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

General Information	
Additive	Impact Modifier
Features	Copolymer Good Processability Good Toughness High Clarity Impact Modified Low Density Low Moisture Absorption
Uses	Appliances Business Equipment Consumer Applications Housings Industrial Applications Medical Devices Medical/Healthcare Applications Protective Coverings Toys
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm³	ASTM D792
--	1.01	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	6.00	cm³/10min	ISO 1133
Molding Shrinkage			
Flow	0.20 to 0.60	%	ASTM D955
--	0.20 to 0.60	%	ISO 294-4
Water Absorption			
Saturation, 23°C	0.10	%	ASTM D570, ISO 62
Equilibrium, 23°C, 50% RH	0.050	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
--	1830	MPa	ASTM D638
--	1800	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	27.6	MPa	ASTM D638
Yield, 23°C	28.0	MPa	ISO 527-2
Tensile Elongation (Break)	42	%	ASTM D638
Flexural Modulus			
--	1830	MPa	ASTM D790
--	1800	MPa	ISO 178
Flexural Strength			
--	41.4	MPa	ASTM D790
--	41.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Gardner Impact	7.91	J	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	97.8	°C	ASTM D1525 [1]
Maximum Service Temperature	250	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index [2]	1.560		ASTM D542, ISO 489
Transmittance (550 nm)	91.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature	65.0	°C	
Drying Time	2.0	hr	
Rear Temperature	180 to 210	°C	
Middle Temperature	185 to 220	°C	
Front Temperature	190 to 225	°C	
Processing (Melt) Temp	200 to 240	°C	
Mold Temperature	30.0 to 55.0	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		
2.	Sodium D Line		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China