

NEFTEKHIM ABS 3432

Acrylonitrile Butadiene Styrene

Nizhnekamskneftekhim Inc.

Message:

ABS 3432- is produced by the initiated continuous mass polymerization of styrene with acrylonitrile, modified by butadiene rubber. It is produced self-colored only, additives/dye free.

General purpose, high flow injection molding grade designed for manufacturing parts of small and large appliances and electronic equipment.

General Information			
Features	High liquidity		
	General		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28 - 38	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.60	%	
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	45.0	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	2350	MPa	ASTM D790
Flexural Strength (Yield)	69.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	DIN 53453
Notched Izod Impact	11	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525 ¹
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Heat Deflection Temperature	96	°C	ASTM D648
Residual Styrene ²	0.050	%	Internal method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94


Glow Wire Ignition Temperature	650	°C	IEC 60695-2-1
Optical	Nominal Value		Test Method
Gardner Gloss (20°)	60		ASTM D523
Additional Information	Nominal Value	Unit	Test Method
Residual acrylonitrile mass content 0.0025 %			
NOTE			
1.	速率 A (50°C/h), 载荷2 (50N)		
	Test Method: TU		
2.	2214-159-05766801-2011		

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