

NEFTEKHIM ABS 0646

Acrylonitrile Butadiene Styrene

Nizhnekamskneftekhim Inc.

Message:

ABS 0646 -is an easy flow, molding, heat resistant grade with impact strength and temperature resistance during the process. It is an indigenous due to low yellow index and color resistance; it can be used mainly for production automobile internals, (extruded profile, interior finish and etc.) and with corresponding coating for external parts such as grids and looking glasses. It is produced self-colored only, additives/ dye free.

General Information	
Features	Good Flow
	Good Impact Resistance
	High Heat Resistance
Uses	Automotive Applications
	Automotive Interior Parts
Appearance	Natural Color
Forms	Pellets
Processing Method	Extrusion
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.5 to 7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	43.0	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength (Yield)	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	DIN 53453
Notched Izod Impact Strength (23°C)	12	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ASTM D1525 ¹
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Deflection Temperature	108	°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 (60°)	60		ASTM D523
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		
2.	Test Method: TU 2214-159-05766801-2011		

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