

NEFTEKHIM ABS 1035

Acrylonitrile Butadiene Styrene

Nizhnekamskneftekhim Inc.

Message:

ABS 1035 -is an easy flow, molding grade, with a medium heat resistance and impact strength, enhanced heat 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. It is produced self-colored only, additives/ dye free.

General Information			
Features	Good Flow		
	Medium Heat Resistance		
	Medium Impact Resistance		
Uses	Automotive Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.5 to 12	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)	111		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	40.0	MPa	ASTM D638
Tensile Elongation (Break)	75	%	ASTM D638
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength (Yield)	62.0	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)	10	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°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	103	°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°)	50	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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