PROTEQ™ C18UST4LSR

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C18UST4LSR is a high melt flow, impact toughened, 20% mineral reinforced polypropylene copolymer grade which features improved heat ageing and UV performance. This grade is an improved marr resistance version of PROTEQ™ C18UST4L and meets the stringent requirements of automotive interior trim durability specifications, combining good low temperature toughness with rigidity, heat resistance and improved marr resistance (SR) whilst enabling easy processing and uniform reduced gloss. This grade has been developed for specific automotive doortrim and other interior components.

General Information	
Filler / Reinforcement	Mineral,20% Filler by Weight
Additive	Impact Modifier
Features	Copolymer Good Heat Aging Resistance Good Processability Good Stiffness Good UV Resistance High Flow Impact Modified Low Gloss Low Temperature Toughness Medium Heat Resistance
Uses	Automotive Applications Automotive Interior Parts

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.0	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore D	70		
Shore D, 15 sec	64		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (3.20 mm)	24.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	100	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	2280	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	290	J/m	ASTM D256

Unnotched Izod Impact (3.20 mm)	No Break		ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	120	°C	
1.8 MPa, Unannealed, 3.20 mm	69.0	°C	
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (1.60 mm)	550	°C	AS/NZS 60695
Injection	**Nominal Value**	**Unit**	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	195 to 215	°C	
Middle Temperature	205 to 225	°C	
Front Temperature	215 to 235	°C	
Processing (Melt) Temp	220 to 270	°C	
Mold Temperature	30.0 to 80.0	°C	
Injection Pressure	60.0 to 140	MPa	
Injection Rate	Moderate		
Back Pressure	0.100 to 0.500	MPa	
Screw Speed	40 to 60	rpm	
Clamp Tonnage	3.0 to 6.0	kN/cm^2	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	10 mm/min		

Recommended distributors for this material

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